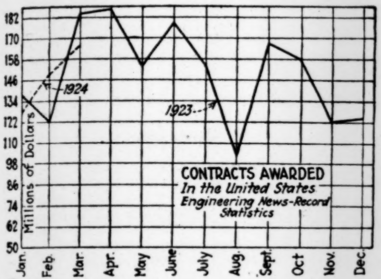
CONSTRUCTION NEWS

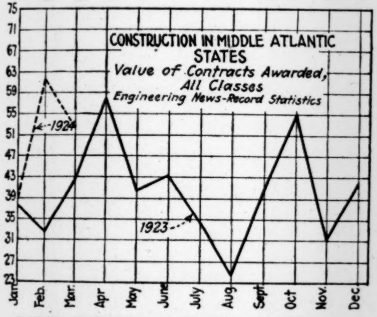
Engineering News-Record, April 24, 1924

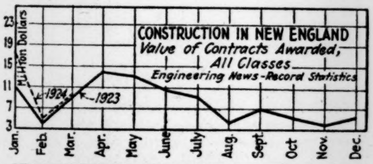
The Construction Barometer

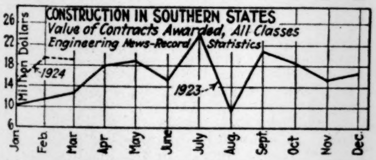
Demand Active—Materials Plentiful—Mill Deliveries Prompt—No Labor Troubles of Importance—Prices Fairly Steady—Money Readily Available

THE eastern half of the United States shows a heavier total value of contracts let for the first quarter of this year than for the corresponding period in 1923. The West fell below last year as shown by the accompanying charts. Reports to *Engineering News-Record* for the third week in April reveal decided gains in lettings for municipal and public utility construction as well as in private work. Awards for large commercial buildings, though not so heavy during the last week as at the beginning of the month, are increasing in number and total value. The present construction market is one of active demand, plenty of materials, prompt mill deliveries, satisfactory labor conditions (so far as strikes and disputes are concerned), fairly steady prices and readily available money.









Engineering News-Record Statistics

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
Apr. 3	$23,838,000	$20,548,000	$44,386,000
Apr. 10	16,276,000	17,337,000	33,613,000
Apr. 17	28,549,000	22,293,000	50,842,000
3 weeks	$68,663,000	$60,178,000	$128,841,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

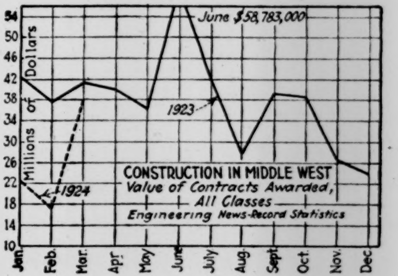
Week Ended	No.	Public Work	No.	Private Work
Apr. 3	16	$6,553,000	58	$17,247,000
Apr. 10	13	2,548,000	31	11,075,000
Apr. 17	16	4,210,000	49	16,139,000
3 weeks	45	$13,311,000	138	$44,461,000

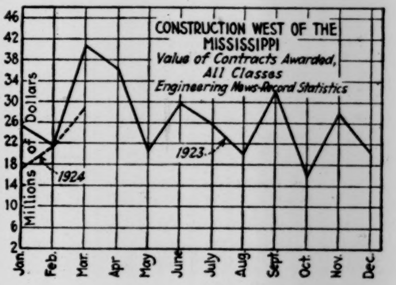
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

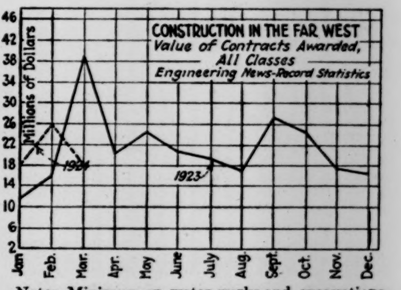
Week Ended	Private	All Buildings	Public: Streets and Roads	Public: Waterworks and Sewers	Public: All Public
Apr. 3	37	53	127	50	301
Apr. 10	48	54	120	41	289
Apr. 17	42	52	109	41	254

PRICES OF BASIC MATERIALS FAIRLY STEADY

	Quoted on Apr. 24 at	Price was	On
Structurals, Pittsburgh, 100 lb.	$2.25 @2.40	$2.30 @2.50	Apr. 10
Cement, Chi., net bbl.	2.20	2.10	Jan. 24
Pine, N. Y., M.ft.	63.00	64.00	Apr. 10
Fir, San Fran., M.ft.	36.00	38.00	Jan. 24
Common labor, hr.	.55	.54	Feb. 28







Note: Minimum on water-works and excavations, $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

Waterworks

PROPOSED WORK

N. Y., Attica—Election Apr. 29, $55,000 bonds improving water supply.

N. Y., Clyde—Clyde Water Wks. Co. plans to purchase approximately five hundred ¾ and 1 in. service water meters.

N. Y., Cortland—Plans improving and extending water supply. $50,000.

N. Y., Herkimer—Plans extending 8 in. mains, etc., in German and South Washington Sts. $18,000-$20,000. F. Gray, pres. Municipal Comn.

N. Y., Liverpool—Plans water supply system, utilizing springs on Duerr Farm. $150,000. I. R. Fairchild, village pres.

N. Y., Sherrill—Voted $15,000 bonds increasing reservoir capacity.

W. Va., Grafton—Plans election $125,000 bonds, filtration plant.

Ga., Dawson—Plans municipal waterworks. $35,000.

Ala., Auburn—Alabama Polytechnic Institute plans water works system, 360,000 gal. per day. $50,000.

Ala., Florence—Election May 5, $100,000 bonds, extension and improvements to waterworks, incl. new settling basin, 12- to 15-in. mains, etc. Noted Mar. 31.

Fla., Sarasota—Plans election to vote on $90,000 bonds, extending water system.

Tenn., Cookeville — Making plans new water purification plant, pipe lines and motor driven centrifugal pumps. $100,000 bonds voted. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Oct. 25.

O., Alliance — Making plans additions, alterations and betterments to pumping station and filtration plant. $200,000. G. B. Gascoigne, 648 Leader-News Bldg., Cleveland, engr.

O., Cleveland—Plans 20-in. c.i. mains in Pearl Rd., $108,500; 36-in. c.i. mains in Madison Ave. and West 89th St. to West Blvd., $225,700. A. V. Ruggles, City Hall, engr.

O., Columbus—See "Streets and Roads."

Ill., Hartford—Voted $50,000 bonds, waterworks and distribution system.

Ill., Rock Island — Rock Island Water Co. having preliminary plans prepared laying 12-in. mains in various parts of city. $30,000. J. A. Murrin, supt.

Ill., Springfield—Making plans waterworks improvements, incl. filtration plant. $450,000 bonds voted. Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, Mo., engrs. Noted Mar. 6.

Wis., Green Bay—Allouez Twp. election Apr. 29, $75,000 bonds, new waterworks. H. R. Abert, Court House, engr.

Wis., Watertown—Had plans prepared 6 in. c.i. mains in various streets. $15,000. A. Kraeft, City Hall, engr.

Waterworks (Continued)

Wis., Kimberly — Making plans new waterworks, incl. artesian wells, two 500 g.p.m. pumps, air lift, 100,000 gal. elevated steel tank, distribution system. $100,000. A. E. McMahon, City Hall, Menasha, engr.

Minn., Fergus Falls—Voted $15,000 bonds, waterworks improvements. Noted Mar. 20 under "Industrial Work."

Minn., Isanti—Had preliminary surveys made waterworks system. $35,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, engrs.

Mont., Livingston — Defeated $45,000 bonds, water plant.

Mont., Missoula — Defeated $900,000 bonds, water plant. Noted Dec. 20.

Mo., Gallatin—Plans 75,000 gal. tank on 135 ft. tower, new fire hydrants and 6 in. mains. $15,000. Engineer not announced.

Okla., Newkirk—City defeated $150,000 bonds for reservoir, new wells and extensions. Musson & Gayle, Grain Exch. Bldg., Oklahoma City, engrs. Noted Apr. 17.

Calif., Claremont—Claremont Domestic Water Co. plans to extend system. $25,000 or more.

Calif., El Centro—Plans to vote on $200,000 bonds, additional filtration machinery, settling basins and new mains. $200,000.

Calif., Placerville — See "Streets and Roads."

Calif., Tujunga—Haines Canyon Water Co. plans extensions and improvements to system. $25,000 or more.

Calif., Whittier—Election Apr. 29, $100,000 bonds, extending mains. Noted Apr. 10.

Calif., Williams—See "Sewers."

Ont., Chipawa—Village Bd. plan extension to water supply system, sanitary and storm sewers. $150,000-$175,000.

BIDS DESIRED

Mass., Waltham (Boston P. O.)—May 15, at office of Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, furnishing and laying 60-in. pipe, here. W. E. Foss, dir. Water Div.; adv. E. N.-R. Apr. 24.

Conn., New Britain—May 12, by Bd. Water Comrs., Room 201, City Hall, laying c.i. mains. J. D. Williams, city engr.; adv. E. N.-R. Apr. 24.

N. Y., Brooklyn—Apr. 28, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Mansfield Pl., K, M, Kingston, Lott, Newport and Lott Aves., Carroll, Malta, 57th, 80th, 81st, East 8th, East 12th, East 28th, East 29th, East 58th, East 59th and East 91st Sts., here.

N. Y., Fredonia—May 6, by Bd. Village Trustees, 19,000 ft. 12 in. c.i. mains, etc. H. P. Bishop, village clk.; adv. E. N.-R. Apr. 24.

N. Y., Long Island City—Apr. 28, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Fresh Pond Rd., Caldwell, Clermont, Firth, Flushing, Homans, Mount Olivet, Phelps, Prospect and Wilton Aves., Delia, Harrow, Henry, Hosack, Madison, Mazeau, Proctor, Ramsey, Seabury, Stockholm, Van Horn, Van Tassel and Weirfield Sts., here.

N. Y., Long Island City—Apr. 29, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Culver and Hunt Places, Alstyne, Burnside, Colonial, Maurice, Nicolls, Peartree and Way Aves., Ivy, Pilgrim, Van Cleff, 20th, 24th, 44th, 51st and 113th Sts., here.

N. Y., Long Island City—Apr. 30, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Maurice Ave. and 167th St.; removing existing connections, valves and appurtenances at Queens Blvd. and Fisk Ave., here.

N. Y., New York—Apr. 28, by N. J. Hayes, comr. Water Supply, Gas & Electricity Municipal Bldg., mains in Grand Concourse, Goodwin Terrace, Claflin, Johnson, Netherland, University, Jerome and Walton Aves., Whalen, West 195th, East 169th, East 171st, East 175th and East 180th Sts., Elliott, Osborne and Wythe Places, Bronx Boro.

N. Y., New York—Apr. 29, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Westchester, Esplanade, Knapp and East 161st Sts., Allerton, Astor, Fenton, Mickle, Seymour, Waring, Bogart, Hering, Jerome, Lurting, Pierce, Radcliffe, Rhinelander, Sherman, Van Nest and Yates Aves., Bronx Boro.

N. Y., New York—Apr. 30, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in White Plains and Boston Rds., Barry and Craven Sts., Chatterton, Gildersleeve, Gleason, Newman, Underhill, Allerton, Astor, Gruger, Fairmount, Hollywood, Matthews and Wallace Aves., Bronx Boro.

N. Y., Whitehall—May 13, by Bd. Village Trustees, furnishing c.i. pipe, Div. A; hauling and laying pipe, building small concrete dam, earth dam, dike and distributing reservoir, Div. B. J. P. Wells, Cutler Bldg., Rochester, hydraulic engr.; adv. E. N.-R. Apr. 24. Noted Apr. 17.

Md., Baltimore—Apr. 30, by Bd. Awards, special 30-in. Poppet valves for additions to Montebello Filters, Water Contr. 73. V. B. Siems, City Hall, water engr.

Md., St. Michaels — May 15, by city comrs., water tanks and towers. Kastenhuber & Anderson, Easton, engrs.; adv. E. N.-R. Apr. 24.

O., Cleveland—Apr. 30, by Cuyahoga Co., 11,500 ft. 6- to 16-in. c.i. mains, Impvt. 551, Sewer Dist. 5. R. F. MacDowell, Court House, engr.

O., Cleveland—May 7, at office of Commissioner Purchases and Supplies, City Hall, Ingersoll Rd. c.i. main, Contr. 33, alternate steel main Contr. 33-A, of Baldwin-Fairmount Project. C. P. Jaeger, comr. Water & Heat; adv. E. N.-R. Apr. 24.

O., Garfield Heights (Cleveland P. O.)—May 9, 6 and 8 in. c.i. mains in 32 streets. $100,000. R. F. Munz, Town Hall, engr.

Mich., Iron Mountain—May 5, by Village of Kingsford, Iron Mountain, $75,000 worth of pipes, valves, hydrants, etc. for extending mains; adv. E. N.-R. Apr. 24.

Minn., Herman—May 5, by village, waterworks improvements, incl. concrete reservoir and pumping equipment. Cory & LeCocq, Aberdeen, S. D., engrs.

Minn., West Concord—May 6, by city, 12,204 lin.ft. c.i. mains, hydrants, specials, etc. $16,000. Toltz, King & Day, 1410 Pioneer Bldg., St. Paul, engrs. Noted Sept. 20.

S. D., Virgil—May 2, 3,700 lin.ft. c.i. mains, 3,500 gal. rein.-con. reservoir, 30,000 gal. elevated steel tank on tower, pump station, one 250 gal. centrifugal pump. $17,000. Smith & Reeves, Mitchell, engr.

Tex., Brenham—Apr. 30, by A. A. Hocker, mayor, water purification addition to waterworks plant, 900,000 gal. water basins, settling and mixing tanks with necessary connections. Noted Feb. 7.

Okla., Tulsa — May 5, by R. Gaebett, city aud., paving with concrete or gunite, slopes of Mohawk Reservoir, 20,000 sq.yd. concrete, etc. $160,000. Holway Eng. Co., 505 Wright Bldg., engrs.

Idaho, Emmet—See "Streets and Roads."

Calif., Long Beach—City Council taking bids 2 pumping plant units, each to consist of horizontal centrifugal pumping equipment, capacity not less than 2,600 g.p.m. nor more than 2,750 g.p.m. against 175 ft. head, direct connected to 2,200 volt, 50 cycle, 3 phase, 40 deg. induction motor, etc. R. D. Van Alstine, city engr.

Calif., Stockton — May 6, by Supervs. San Joaquin Co., one turbine deep well pump, to lift from 700 to 1,000 gal. against 100 to 130 ft. head, operated by 440 volt, 3 phase, 60 cycle motor. E. Graham, clk.

BIDS RECEIVED

O., Cleveland—For 1,875 ft. 60 and 66 in. c.i. mains in Woodland Ave. Sect. 30W, from J. Connelly Constr. Co., 7016 Euclid Ave., $184,267. Noted Apr. 3.

Wis., West Allis — For 10,641 lin.ft. mains, from Mierswa Constr. Co., 1619 Oregon St., Oshkosh, 6 in. $2.85, 8 in. $3.40, 10 in. $5.84.

Wis., Milwaukee — Mains (c.i.) in 16 streets, from L. J. Stevenson, 1720 Cedar St., 5,148 ft. 6 in. $0.68, 5,218 ft. 8 in. $0.795, 10,038 ft. 12 in. $1.34.

CONTRACTS AWARDED

N. Y., Binghamton—Bd. Contr. & Supply, mains in Court, Robinson and Ely Sts., to La Roche & Brown, Binghamton, $25,010; in Vestal Ave., to C. W. Rose, 616 Chenango St., $12,417. Noted Apr. 17.

Md., Baltimore — Bd. Awards, motor-operated pumps and c.i. piping in Pumping Sta. 1, to H. W. Kries & Sons Co., 6 West Lombard St., $9,956. Noted Apr. 17.

O., Columbus—Franklin Co., to Grant Boulton Co., 202 Central Bank Bldg., 10,260 ft. 6- to 12-in. c.i. mains in Sewer Dist. Clinton 2 (North High St. Area), Contr. 35, $33,543; to H. E. Miller, 938 South High St., 7,266 ft. 6 in. c.i. mains in Sewer Dist. Clinton 2 (Chaseland Area), Contr. 36, $12,218, 7,425 ft. 6 in. and about 1,140 ft. 12 in. c.i. mains in Sewer Dist. Clinton 2 (Sharon Heights Area) Contr. 37, $16,795, 3,075 ft. 6 in. c.i. mains in Sewer Dist. Prairie 1 (Area 2), Contr. 38, $5,468. Noted Apr. 3.

Mich., Detroit—Water Bd. will lay 6 in. water mains in Carbondale Ave. from Livernois Ave. eastward and in Westlawn Ave. north of Fenkell Ave., also 8 in. mains in Wilshire Dr. and Promenade Ave. between Dickerson and Chalmers Sts., Cheyenne Ave. between Grand River and Davison Aves., and Washburn Ave. between Davison and Schoolcraft Aves., by day labor. $25,000. Will purchase pipe. G. H. Fenkell, Jefferson Ave., genl. mgr.

Mich., Detroit—Bd. Water Comrs., 100 tons c.i. special castings for mains, to Michigan Valve & Fdry. Co., 3631 Parkinson St., $10,950.

Wyo., Casper — Constructing 10 m.g. rein.-con. reservoir to Scott & Curlee, Casper, 57,600 cu.yd. earth excav. $0.50, 1,800 cu.yd. rein.-con. in walls $18, 1,985 cu.yd. rein.-con. paving $14, 212,000 lb reinforcing in walls $0.055, 134,000 lb. reinforcing in paving $0.055, etc., total $116,549. Noted Apr. 3.

Tex., Sinton—Waterworks: 21,000 ft. 4- to 8-in. c.i. pipe, 11,300 ft. 2 in. galvanized steel pipe, 75,000 gal. elevated steel or metal tanks, to Kirkwood & Wharton, 213 West Commerce St., San Antonio, $43,633.

Sewers

PROPOSED WORK

Mass., Brighton (Boston P. O.)—City of Boston making plans 3,000 ft. 12-in. pipe sanitary sewer in Hichborn St., here. $45,000. E. P. Murphy, City Hall, Boston, div. engr.

Mass., Dorchester (Boston P. O.)—City of Boston making plans 2,000 feet 6 ft. 8 in. x 6 ft. 1 in. concrete sewer in Humphreys St. between Holden and Dudley Sts., here. $65,000. E. P. Murphy, City Hall, Boston, div. engr.

N. Y., Binghamton — Broome Co. had plans prepared new sewer facilities for Broome Co. Tuberculosis Hospital. $25,000.

N. Y., Endicott—Bd. Village Trustees plans storm and sanitary sewers in various streets. **To exceed $25,000. Address** C. E. Bennett, village pres.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., received no bids Apr. 15, sewer in Hammels Blvd. and Amstel Ave. Noted Apr. 10.

Tenn., Cookeville—Surveys being made 6 mi. sanitary sewerage system. Voted $50,000 bonds. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Ky., Mayfield—Plans sanitary sewers and disposal plant. Black & Veatch, 701 Mutual Bldg., Kansas City, Mo., engrs. Noted Feb. 14.

O., Alliance — Making plans improving disposal facilities. G. B. Gascoigne, 648 Leader-News Bldg., Cleveland, engr.

O., Columbus—See "Streets and Roads."

O., Crestline — Making plans sewerage system and disposal facilities. $150,000. G. B. Gascoigne, 648 Leader-News Bldg., Cleveland, engr.

O., Lodi — Making plans disposal improvements. $50,000. G. B. Gascoigne, 648 Leader-News Bldg., Cleveland, engr.

O., New Philadelphia — Plans sanitary sewerage system. $50,081. G. E. Arnold, New Philadelphia, engr.

Ind., Evansville — Received no bids Howard Roosa Trunk Sewer. Will probably readvertise. $800,000. J. D Saunders, City Hall, engr. Noted Jan. 10.

Wis., Manitowoc — Making plans 7,700 lin.ft. 8- to 20-in. storm sewers in 13 streets. $25,000. F. L. Alter, City Hall, engr.

Ia., Sioux Center—Plans sewers in various streets. $25,000. P. B. Mouw, clk.

Neb., Omaha — Soon takes new bids sewers in Dists. 756, 843, 846, 847, 848, 849, 850, 851 and 852. $25,000. H. Beal, city engr.

S. D., Sioux Falls—Making plans disposal plant. $30,000. W. C. Leyse, aud.

Tex., Merkel—Election May 14, $50,000 bonds, sewerage system. Municipal Eng. Co., Praetorian Bldg., Dallas, engrs.

Calif., Placentia — Plans sewerage system, to connect with outfall sewer direct to ocean. To exceed $25,000.

Calif., Venice—See "Streets and Roads."

Calif., Whittier—Apr. 29, to vote on $50,000 bonds, sewage disposal plant. Noted Nov. 29.

Sewers (Continued)

Calif., Williams—Plans to vote on $55,000 bonds: $40,000 for sewerage system, incl. small disposal plant, and $15,000 for purchasing existing waterworks, for which improvements are planned.

Ont., Guelph—Plans duplicate trunk sewer from sewage disposal plant to Gordon and Wellington Sts., 12,000 ft. pipe, 12 in. up. $58,400. H. S. Nicklin, city engr.

Ont., Long Branch—Making plans rein.-con. disposal plant, septic tank or activated sludge. $40,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Ont., Riverside—Making plans disposal plant and 3 mi. sewers. $100,000. A. Smith, City Hall, engr.

BIDS DESIRED

N. Y., Gloversville—May 6, by Common Council, sanitary sewer in Bleecker St. To exceed $25,000. W. H. Marple, clk. Noted Apr. 17.

N. Y., Long Island City—Apr. 29, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Ridgewood Pl., 91st Ave., Park Lane South (Ashland St.), 195th (Danube) and 114th Sts.

N. Y., North Tonawanda—May 19, by City at office of City Clerk, sanitary sewers. C. L. Oelkars, city engr.; adv. E. N.-R. Apr. 24.

N. J., Irvington (branch of Newark)—Apr. 25, by Bd. Town Comrs., sixty-four 4 in. and fifty-seven 6 in .sewer connections in Stuyvesant Ave., twenty-three 6 in. Sandford Ave., 1,155 lin.ft. 15- to 18-in. sewer in Augusta St. and Stratford Pl. I. J. Casey, Jr., town engr.

D. C., Wash.—May 5, at office Washington Suburban Sanitary Comn., Evans Bldg., New York Ave., steel standpipe, Contr. 42 W. R. B. Morse, Hyattsville, Md., ch. engr. of Dist.; adv. E. N.-R. Apr. 24.

Md., Baltimore—Apr. 30, by Bd. Awards, storm water drains in Sewer Dist. 48 and 34-A, Storm Water Contr. 68, 4,000 ft. 15- to 36-in. storm drain and inlet connections. B. L. Crozier, City Hall, highways engr.

Ga., Bainbridge—May 7, by City Council, 4 mi. 8- to 12-in. and 2 mi. 15- to 36-in. sewers. $150,000. A. Pew, 34 Cove St., Atlanta, engr. Noted Dec. 13.

O., Cleveland—Apr. 30, by Cuyahoga Co., 21,000 ft. 8- to 66-in. vitr. sewers, Impvt. 500, also 9,150 ft. 8- to 18-in. vitr. sewer, Impvt. 51 of Co. Sewer Dist. 1. R. F. MacDowell, Court House, engr.

O., Massillon—May 1, by Director Pub. Serv., constructing Tuscarawas, Sippo, Wetmore, North End and Wooster trunk sewers. C. E. Rice, city engr.; adv. E. N.-R. Apr. 24.

Michigan—Apr. 24, by C. J. Crawford, drainage comr., Royal Oak, improving Red Run Drain and constructing Campbell Rd. Drain, Oakland Co., 13,600 ft. widening and deepening, 10,371 ft. 9 ft. 6 in. and 10 ft. drains, 17,865 ft. 24 in. to 9 ft. drains, 70 tons steel I beams.

Mich., Royal Oak — Apr. 28, by R. B. Fleming, city clk., 5,920 ft. Sanitary Lateral 29, 8 in. vitr. pipe, 5,189 ft. Lateral 28, 8 and 10 in. vitr. pipe, 6,034 ft. Lateral 24, 8 in. vitr. pipe. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

Calif., La Habra—May 6, by Trustees La Habra Sanitary Dist., 1,625 lin.ft. 15 in., 3,093 lin.ft. 12 in., 5,857 lin.ft. 10 in. and 2,238 lin.ft. 8 in. sewer pipe, 42 manholes, sewage treatment plant, etc. Elrod Eng. Co., Mills-Fraser Bldg., Santa Monica, engrs. Noted Feb. 14.

Calif., Los Angeles—Bd. Pub. Wks. taking bids Sect. 7 North Outfall Sewer, 1,770 lin.ft. inverted rein.-con. syphon in 3 lines on concrete cradles, laid about 16 ft. underground and top line of sewer 6 ft. underground, 1,714 lin.ft. double concrete pipe, etc. J. A. Griffin, city engr.

BIDS RECEIVED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Hunt St., from Peace Bros. Inc., 57 North Laurence St., Flushing, $5,029; California Ave., from Seaside Contg. Co., 193 Beach 108th St., Rockaway Beach, $5.493; 95th Ave., from P. J. Greenough Eng. Co., $705; 97th Ave., from D. A. Gross, $3,641; Ulster Ave., from E. Muccinni, $1,201. Noted Apr. 10.

N. Y., New York—H. Bruckner, pres. Bronx Boro., Apr. 15, sewers and appurtenances in Waring Ave., from Speciero & Turiana, 3185 East Tremont Ave., $21,265; in Pelham Parkway and Strang Ave., from Carlo Petrillo Co., $47,113 and $15,890 respectively; in West 255th St., from Alpheo Mussumeea, $9,498; in Taylor Ave., from McDonald & Wilson, $22,301. Noted Apr. 10.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, sewers in Arthur Ave., etc., from J. Johnson Sons, 455 Bway., West New Brighton, $18.008. Noted Apr. 10.

Pa., Phila.—Dir. Pub. Wks., Northeast sewerage treatment works superstructure for 1 story, 27 x 42 ft. brick and steel locker building and 1 story, 65 x 114 ft. brick and steel heating plant, from Kober Constr. Co., 34 South 17th St., $22,950 and $86,000 respectively; mechanical equipment, etc., for heating plant from Roberts Filter Mfg. Co., Darby, $87,490. Noted Apr. 3.

Md., Baltimore — Bd. Awards, Apr. 16, storm water drains in Dist. 48, Storm Water Contr. 66, 17,000 cu.yd. excav., 2,500 cu.yd. concrete masonry, 4,000 lin.ft. 24- to 54-in. rein.-con. pipe drains, from Ryan Constr. Co., Real Estate Trust Bldg., Phila., $108,479. Noted Apr. 10.

O., Cleveland—For 565 ft. 5 x 8 ft. concrete sewer in Ontario St., from W. McDowell & Son Co., 10319 Miles Ave., $57,838; 1,230 ft. 2-C sewer and 500 ft. 12 in. vitr. tile sewer in East 185th St. and Melville Rd., from George & Ameen Constr. Co., 2192 East 119th St., $15,618; 345 ft. 12 in. vitr. tile sewer in Cedar Ave., from G. Assad, Orange Ave., $1,545; 1,560 ft. 12 in. vitr. tile sewer in East Blvd., from Yahya Bros., 3196 West 25th St., $9,362; 840 ft. 12 in. vitr. tile sewer in Harvey Ave., from M. Stein, $4,818; 490 ft. 7 ft. concrete sewer in Kingsbury Run, from Stevens & McKeon, 4208 East 96th St., $23,518. Noted Apr. 3.

O., Euclid—Sewer in Lake Shore Blvd., from C. W. Jackson, 1318 East 84th St., Cleveland, $138,738.

Wis., Milwaukee — Monolithic, concrete and pipe sewers in Roosevelt Dr., from Clayton Constr. Co., 397 Farwell Ave., $203,009; Sherman Blvd. from Concordia Ave. to Roosevelt Dr., from G. E. Zimmermann Co., 3402 Grand Ave. $114,899; Sherman Blvd. from Burleigh St. to Concordia Ave., from Hammen & Co., 342 East North Ave., $86,329; Oklahoma Ave., etc., from Milwaukee Sewer & Drainage Co., 928 Humboldt Ave., $15,004.

Wis., West Allis—For 11,000 lin.ft. 8- and 10-in. vitrified clay sanitary sewers, from H. Schaefer & Son, 1149 East Mason St., Green Bay, $1.90 and $2.60 per ft.

Colo., Denver—For 8, 10 and 12 in. vitr. pipe, brick manholes, in South Side Special Sanitary Sewer 9, from Pendergast-Connor Constr. Co., 1st Natl. Bank Bldg., $60,153. Noted Apr. 10.

Wash., Seattle—Bd. Pub. Wks., Apr. 11, sewers in 34th Ave. W., from Scalzo & Co., Seattle, 7,815 ft. 8-in. clay $1.75, 2,270 ft. 10-in. $2, 2,315 ft. 12-in. $2.10, 870 ft. 24-in. $6, 2,750 ft. 27-in. $8.50, 2,180 ft. 30-in. $12, and 512 ft., 30-in. on trestles $6, total $100,373. Engrs. est. $89,936.

CONTRACTS AWARDED

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in Edison and Hobart Aves., to McDonald & Wilson Co., $31,160 and $3,225 respectively; Sedgwick Ave., to Sunrise Constr. Co., Inc., $7,679; East 194th St., to C. E. Farrell Contg. Co., 1981 Pilgrim Ave., $8,110. Noted Apr. 17.

O., Columbus—Franklin Co. 9,000 ft. 8 and 10 in. vitr. sewers in Sewer Dist. Clinton 2 (Sharon Heights Area), Contr. 39, to H. E. Miller, 938 South High St., $20,261. Noted Apr. 3.

O., Toledo—West Side Branch Intercepting sewer, Contr. 7 A, to Harris & Tansey, Nasby Bldg., $167,820. Noted Mar. 6.

Ill., Harvey—Sewers in Dists. 168 and 169 to Kraay & Livers, Harvey, $21,530 and $16,797 respectively; Dist. 170 to Christensen Bros., Urbana, $36,157. Noted Apr. 17.

Ia., Oelwein—See "Streets and Roads."

Waste Disposal

BIDS DESIRED

N. Y., Eastchester (Greycourt, P. O.)—May 7, by E. A. Mathews, clk. Town Bd., Village Hall, Tuckahoe, incinerator plant, chimney and building on White Plains Rd., here. Former bids rejected. J. F. Musselman, 101 Park Ave., New York City, consult. engr. Contract for equipment, to Decarie Incinerator Co., New York. Noted Apr. 17.

N. Y., Rockaway Beach (Ind. Sta. Far Rockaway)—Apr. 29, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Long Island City, constructing and completing building and runway, furnaces, appurtenances and chimney of Rockaway Beach Destructor, here.

Bridges

PROPOSED WORK

Vermont — T. W. Dix, ch. engr. State Hy. Dept., Montpelier, takes bids about May 15, facing with 1-2-4 concrete old stone abutments of bridge over Hoosic River, at Pownal, Federal Aid Project 53; bridge over river and railway tracks, known as Gassets Overpass, in Chester, Federal Aid Project 54A, seven 25 ft. I beam spans and two 75 ft. girder spans; one 163 ft. and one 72.5 ft. spans using existing abutments and piers and capping with concrete, in Waterbury, Federal Aid Project 61A; one 80-ft. low truss span, concrete foundation, in Middlebury, (moved 100 ft. upstream from old structure), Federal Aid Project 62A.

New Jersey—State Hy. Dept., Trenton, plans 150 ft. draw double leaf bascule span over Hackensack River between Kearny and Jersey City. $700,000. J. L. Vogel, Broad St. Bank, Trenton, engr.

North Carolina — See "Streets and Roads."

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, takes bids about June 1, steel and concrete bridge and approaches over Caney Fork River, near Rock Island, White and Warren Counties. To exceed $25,000. J. G. Creveling, state highway comr.

Tenn., Smithville—DeKalb Co. soon takes bids concrete and steel bridge over Caney Fork River at Sligo Landing. $25,000. Work will be done under supervision State Hy. Dept., Nashville.

Ohio—See "Streets and Roads."

O., Cleveland—See "Unclassified."

Michigan — State Hy. Dept., Lansing, plans following bridges for 1924: Bridge 310402, 75 ft., across Ontonagon River, Houghton Co., Bridge 100501, 60 ft., across Betzie River, Benzie Co., Bridge 032001, 212.5 ft., across Kalamazoo River, Allegan Co., Bridge 040801, 75 ft., across Thunder Bay, Alpena Co., Bridge 060201, 120 ft., across Rifle River, Arenac Co., Bridge 091,301, 90 ft., across Cheboygan River, Bay Co., Bridge 131202, 75 ft., across Kalamazoo River, Calhoun Co., Bridge 230101, 90 ft., across Battle Creek River, Eaton Co., Bridge 291601, two 75 ft. spans, across Maple River, Gratiot Co., Bridge 320602, 90 ft., across Pinnebog River, Huron Co., Bridge 3306001, two 14 x 22 ft. spans, under Grand Trunk Rd., Ingham Co., Bridge 340404, two 60 ft. and one 90 ft. spans, across Grand River, Ionia Co., Bridge 3811001 over Michigan Central R.R., Jackson Co., Bridge 4113001 over Pere Marquette R.R., Kent Co., Bridge 580711, two 40 ft. spans, on Federal Aid Project 73, across Raisin River, Monroe Co., Bridge 580303, 150 ft., on Trunk Line Rd. 56, across Huron River, Monroe Co., Bridge 560804, one 20 x 90 ft., across Salt River, on Trunk Line 20, Midland Co., Bridge 531002, 75 ft., across Pere Marquette R.R. on Trunk Line Rd. 11-23, Mason Co., Bridge 531001, one 22 x 75 ft., across Pere Marquette River, Mason Co., Bridge 500401, two 22 x 90 ft. spans, across Clinton River on Trunk Line Rd. 59, Macomb Co. G. C. Dillman, ch. engr.

Minn., St. Paul—Had plans prepared temporary bridge over Mississippi River on Jackson St., for use while Robert St. Bridge is being built, 900 ft. long, 24-ft. roadway, 6-ft. sidewalk, timber and steel. $125,000. G. M. Shepard, city engr.

Montana—See "Streets and Roads."

Montana—State Highway Comn., Helena, having plans prepared Project 212A, Big Horn Co., two bridges, each 120 ft. steel truss span on concrete abutments, $30,000 each; Project 213, Glendive Co. bridge over Yellowstone River, six 216 ft. steel spans on concrete abutments, concrete deck, incl. 600 lin.ft. concrete paving on approach, $310,000; Project 152, Blaine and Phillips Counties, two bridges across Milk River, each 175 ft. steel spans on concrete abutments, $35,000 each; Park Co., bridge across Bitter Root River, two 150 ft. steel spans on concrete piers, $50,000.

Arkansas—Comrs. St. Francis Levee Dist. comprising 8 counties, authorized Elliott & Harmon, engrs., Bank of Commerce Bldg., Memphis, Tenn., to prepare plans for Harahan Bridge over Mississippi River. Expense to be borne by State of Tennessee, city of Memphis, St. Francis Levee Dist. and State of Arkansas.

Ore., Portland—Comrs. Multnomah Co. rescinded contracts Sellwood, Ross Island and Burnside Bridges. Noted Apr. 17.

Bridges (Continued)

Calif., Placerville — See "Streets and Roads."

Calif., Sacramento—Sacramento Co. rejected bids for bridge over Paintersville Slough, incl. 1,267 cu.yd. of ½ to 5 in. concrete in piers and abutments, 396 cu.yd. 1- to 4 in. concrete in arches, erecting 500,000 lbs. structural steel (furnished by county), etc. Noted Mar. 13.

Calif., Sacramento — State Highway Comn., Sacramento, having estimates made ground-level bridge over American River, 12th St., here. To exceed $25,000. R. M. Morton, state highway engr.

Calif., San Francisco—City and San Francisco Co. having plans prepared San Jose Ave. viaduct. $175,000. M. M. O'Shaughnessy, city engr.

BIDS DESIRED

Mass., Chicopee—May 5, by E. Bourbeau, supt. streets, repairing city's portion of Chicopee West-Springfield Bridge over Connecticut River; adv. E. N.-R. Apr. 24.

New Jersey—May 5, by State Hy. Dept., Trenton. Beaver Brook Bridges. Route 5, Sect. 11, Warren Co. and municipality of White Twp. A. L. Grover, secy.; adv. E. N.-R. Apr. 24.

N. J., Asbury Park—May 7, by Bd. Freeholders Monmouth Co. (Freehold) Bridge No. 0-10 over Deal Lake, on Sunset Ave., here. G. K. Allen, Jr., 60 Broad St., Red Bank, engr.; adv. E. N.-R. Apr. 24.

Pa., Claysburg — Apr. 28, by Comrs. Blair Co. (Hollidaysburg), 100 ft. rein.-con. girder bridge, 32 ft. wide, with two 5 ft. sidewalks, over Frankstown branch of Juniata River. F. A. McCloskey, Hollidaysburg, engr.

N. C., Newton—May 5, by Catawba Co. Hy. Comn., bridge over Catawba River between here and Taylorsville. W. B. Kiker, Newton, consult. engr.; adv. E. N.-R. Apr. 24.

Fla., Miami Beach—Apr. 30, by City Council, concrete bridge on Meridian Ave., over Collins Canal, adv. E. N.-R. Apr. 24. Noted Feb. 7.

Louisiana—May 6, by State Hy. Dept., Baton Rouge, 144 ft. bridge near Cancienne Canal, Assumpton Parish, six 17 ft. creosoted timber trestles and one 42 ft. swing span, involving 15,000 ft. untreated lumber, 11,000 ft. creosoted lumber, 1,350 ft. creosoted piling, 18,000 lb. structural steel.

Ohio—See "Streets and Roads."

Ohio—May 2, by Dept. Highways and Pub. Wks., Columbus, 2 bridges on Sect. "D" Lima-Spencerville Rd., Allen Co., $7,515; concrete bridge on Sect. "C" Athens-Marietta Rd., Athens Co., $16,081; concrete bridge on Sect. "G" Springfield-Washington C. H. Rd., Clark Co., $3,282; concrete bridge on Sect. "F" Springfield-Washington C. H. Rd., Clark Co., $6,781; 2 concrete bridges on Sect. "FJ" Jackson-Pomeroy Rd., Jackson Co., $9,181. A. V. Donaheys, dir. highways.

Wis., Tomahawk—Apr. 29, by State Hy. Comn. at City Hall, Tomahawk, Tomahawk Ave. Bridge, overall length 563 ft. plate girder type, 7 spans each 80 ft., 24 ft. roadway, one 6 ft. cantilevered sidewalk, substructure consists of 2 concrete abutments, over Wisconsin River, here. W. C. Buetow, bridge engr.

Wyoming—May 2, by State Highway Comn., Cheyenne, 8 span steel bridge. $60,000. Z. E. Sevison, state highway engr.

Tex., Houston—May 5, by H. L. Washburn, aud. Harris Co., concrete and steel bridges on La Porte Rd. and Sims Bayou. $25,000. Howe & Wise, co. engrs.

Utah, Salt Lake City—See "Excavation, Drainage, Irrigation."

Calif., Sherman Island — Delta Bridge Corp., 525 Market St., San Francisco, taking bids for steel for bridge over San Joaquin River between here and Antioch. Plans provide for 869 lin.ft. concrete trestle approach, 912 lin.ft. concrete or steel viaduct on 16 piers, 270 lin.ft. steel lift span, 270 lin.ft. steel fixed span, 850 lin.ft. approach. Total cost $1,500,000. Little & Dodge, 251 Kearny St., San Francisco, engrs. Noted Jan. 10.

BIDS RECEIVED

Ga., Athens—Clarke Co., concrete arch bridge over Oconee River at Oconee St., from Steel & Lebby, Knoxville, Tenn. Noted Mar. 27.

Ala., Eufaula—State Hy. Dept., Montgomery, bridge over Chattahoochee River, Project 373, Barbour Co., from Nashville Bridge Co., foot of Shelby Ave., Nashville, Tenn., $61,199. Noted Mar. 20.

Ohio—See "Streets and Roads."

O., Milford—Hamilton Co., Court House, Cincinnati, Apr. 18, substructure for 260 ft. steel truss bridge, incl. 1,100 sq.yd. 1:2:3 concrete paving, 6,000 lin.ft. 1:2:3 sidewalk, 800 cu.yd. 1:2:4 concrete 13 tons reinforcing, etc., here, from R. C. Rude, Madisonville, $24,820, engr. est. $28,300; superstructure for above, from Pennsylvania Bridge Co., Beaver Falls, $70,124, $51,700. Noted Mar. 27.

CONTRACTS AWARDED

N. Y., Le Roy — For 262 ft. rein.-con. bridge, 30 ft., over Oatka Creek, Clay St., to G. W. Thompson, Gurney Bldg., Syracuse, $74,500. Noted Mar. 27.

Me., Sullivan—State Hy. Comn., Augusta, superstructure for bridge over Taunton River between here and Hancock, four 190 ft. 6 in. spans, and one 209 ft. 8½ in. span, to Amer. Bridge Co., 30 Church St., New York City, $127,622. Noted Mar. 27.

West Virginia — State Road Comn., Charleston, superstructure Hanging Rock Branch Bridge 670, Project 134, Hampshire Co., Leading Creek Bridge 053, Project 3211-A, Randolph Co., Abrams Creek Bridge 883, Project 122-B, Grant Co., Hackers Creek Branch Bridge 910, Project 3225, Harrison Co., Stonecoal Bridge 898, Project 3188, Wayne Co., to Vincennes Bridge Co., Vincennes, Ind., $8,063, $5,795, $6,365, $7,195 and $6,349 respectively; superstructure, Denver Bridge 885, Project 3167-B, Marshall Co., Johns Branch Bridge 905 and 906, Project 3226, McDowell Co., to E. R. Mills, Newport, Ky., $13,487 and $24,222 respectively; Klines Gap Branch Bridge 884, Project 3146, Grant Co., Annabelle Branch Bridge 899, Project 2135, Marion Co., to Shaid Constr. Co., Elkins, $6,147 and $4,922 respectively; substructure for Hackers Creek Bridge 910, Project 3225, Harrison Co., to Kingwood Constr. Co., Kingwood, $6,324, substructure Cedar Creek Bridge 843, Project 3111, Gilmer Co., to L. W. Cole, 1200 Jefferson Ave., Huntington, $19,620, substructure Johns Branch Bridge 905 and 906, Project 3226, McDowell Co., S. Yon Co., Huntington, $18,818, Hanging Rock Branch Bridge 670, Project 134, Hampshire Co., to N. H. Clark, Luray, $11,190, Hughes Creek Bridge 909, Project 3225, Harrison Co., to O. A. McQueen, Buckhannon, $11,306, Leading Creek Bridge 953, Project 3211-A, Randolph Co., to Keeley Constr. Co., Clarksburg, $4,187; superstructure, Cedar Creek Bridge 842, Project 3111, Gilmer Co., to Oregonia Bridge Co., Lebanon, O., $12,369; substructure and superstructure for Bridge 984, Project 3082-B, Wetzel Co., to Pipes & Johnson, Middleboure, $27,631; State Bridge 744, Project 3084-B, Wood Co., to Hardman & Minns, Spencer, $12,368; Bridges across 3 mile and 5 mile creeks, 857 and 858, Project 3139, Mason Co., to Hatfield Constr. Co., 418½ 10th St., Huntington, $22,886; Grassy Creek Bridge 690, Project 3279, Webster Co., to Farris Constr. Co., Sutton, $22,513; Dallison Bridge, Project 3116-A, Wood Co., to C. P. Cokeley, Harrisville, $5,994. Noted Mar. 13.

Ala., Eufaula — State Hy. Dept., Montgomery, ¼ mi. bridge over Chattahoochee River, here, to Nashville Bridge Co., foot of Shelby Ave., Nashville, Tenn., $61,199. Noted Apr. 24.

Louisiana—State Hy. Comn., Reymond Bldg., Baton Rouge, 11 bridges ranging from 15 to 131 ft. long, on Federal Aid Project 113 B, Lafourche Parish, to Austin Bridge Co., 1813 Clarence St., Dallas, Tex. Noted Mar. 20.

Ohio—See "Streets and Roads."

Ohio—Dept. Highways and Pub. Wks., Columbus, steel bridge on Sect. "D" Youngstown-Conneaut Rd., Ashtabula Co., to Brookville Bridge Co., Brookville, $6,281; steel bridge on Sect. "C" Windsor-Geneva Rd., Ashtabula Co., to Perkins Structural Steel Co., Worcester, $7,547; concrete bridge on Sect. "D" Athens-Nelsonville Rd., Athens Co., to Elsass-Myer Co., Anna, $16,878; bridge on Sect. "D" Piqua-Sidney Rd., Miami Co., to Kobarger & Etherington, Sidney, $7,205. Noted Apr. 3.

Ind., Indianapolis—Marion Co., bridge over Fall Creek, to M. E. White Co., 350 West Kinzie St., Chicago, $172,336. Engrs. est. $196,000.

Mich., Ludington — State Hy. Dept., Lansing, two 75 ft. trough span, concrete girder bridges 531001 and 531002, Mason Co., to W. Marshall, Grand Rapids, $46,230. Noted Apr. 17.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, bridges, **(3-28B, Warren means Route 3, Sect. 28B, Warren Co.)**, to A. Olsen Constr. Co., Waterloo, Ia., on 3-28B, $46,236, on 3-35B, Warren, $22,917, on 5-28B, 5-29B, 5-30B, 5-28C, and 5-31B, Jo Daviess, $96,985; to A. P. Munsen, Marion, Ia., on 9-25B, Hancock, $52,913. on 9-24B, Hancock, $35,870; to G. C. Fairclo, Industry, on 8-20B, Iroquois, $20,144, on 9-37B, McDonough, $12,179; to Clinton Bridge Wks., Clinton, Ia., on 3-28C, Warren, $25,771, on 9-24C, Hancock, $7,525; to St. Louis Structural Steel Co., Bank of Commerce Bldg., St. Louis, Mo., on 9-25C, Hancock, $21,134; to C. P. O'Reilly & Co., Wainwright Bldg., St. Louis, Mo., on 9-41B, Fulton, $6,778; to Whitewater Bridge Co., Whitewater, Wis., on 41-12B, Fulton, $16,288; to M. R. Deyo & Co., 1126 West Washington St., East Peoria, on 9-44, Fulton and Peoria, $5,897; to Ferguson Constr. Co., 1033 North 2nd St., Rockford, on 8-21D, Iroquois, $31,679. Noted Mar. 13 and Apr. 10.

Kan., Kansas City — Wyandotte Co., bridge on 12th St., substructures, to J. W. McMurry Constr. Co., 511 Railway Exch. Bldg., Kansas City, Mo., $198,500, superstructure and timber work, to Wisconsin Bridge Co., North Milwaukee, Wis., $220,700 and $53,000 respectively. Noted Mar. 20.

S. D., Yankton—See "Streets and Roads."

Missouri—State Hy. Dept., Jefferson City, three 60 ft. steel truss and two 18 ft. rein.-con. slab spans, 4 rein.-con. piers, over Perchee Creek, Boone Co., to Short, Bramer & Cox, Monnett, $22,444. Noted Mar. 6.

Missouri—State Hy. Dept., Jefferson City, one 90 ft. steel truss and four 25 ft. I-beam spans, 2 rein.-con. piers, etc., over Salt Fork, Salem Co., to Missouri Bridge & Iron Co., Fullerton Bldg., St. Louis, $18,622; 483 ft. overhead bridge, one 60 ft. steel plate girder, two 20 ft. rein.-con. slab, one 35 ft. and two 28 ft. rein.-con. deck girder spans, etc., over Salt Creek and tracks of Missouri, Kansas & Texas R.R., Howard Co., to Acme Engineers, Decatur, Ill., $48,574. Noted Apr. 3.

Nevada—Dept. Highways, Carson City, Contr. 103, Federal Aid Project 53-B, timber trestle over Virgin River, near Bunkerville, Clark Co., 882 lin.ft. long, 18 ft., to Dodge Bros. & Dudley, Inc., Reno, 7,740 lin.ft. treated timber piles $1.98, 190,600 ft. timber, complete in place, $130, etc., total $43,219; engrs. est. $57,413. Noted Mar. 27.

Calif., Alton — State Highway Comn., Sacramento, bridge across Van Duzen River, near here, (I-Hum-1-F), three 163 ft. rein.-con. arch spans and eight 30 ft. rein.-con. girder spans, incl. 2,975 cu.yd. concrete, 2,200 cu.yd. excav., 3,500 cwt. reinforcing, 650 lin.ft. rein.-con. piles, to Bordwell & Zimmerman, Napa, $88,050; engrs. est. $93,680. Noted Mar. 27.

Calif., Sacramento — Sacramento Co., bridge at Steamboat Slough, double leaf Strauss bascule structure with 2 piers and abutments, incl. 398 cu.yd. of ½ to 5 in. concrete in piers and abutments, erecting 500,000 lb. structural steel (furnished by county), etc., to Isham & Nystedt, 111 Kensington St., Stockton, $73,516. Noted Mar. 13.

Dams

BIDS DESIRED

Mich., Detroit—May 15, by Detroit Edison Co., dam and power house at French Landing on Huron River, 20 mi. from here. G. S. Williams, Cornwell Bldg., Ann Arbor, consult. engr.; adv. E. N.-R. Apr. 24.

CONTRACTS AWARDED

Ore., Jacksonville — Talent Irrigation Dist., 400 ft. concrete dam, 126 ft. high, to W. A. Cramer, San Francisco, Calif., $185,713; Ashland lateral ditch, 60,000 cu. yd. excav., to Woelke & Rhodes, Grants Pass, $41,900.

Railways

PROPOSED WORK

New York—Binghamton Ry. Co., 375 State St., Binghamton, plans new trackage extensions in Binghamton to Johnson City. To exceed $100,000. F. L. Fuller, pres.

Tennessee—Knoxville Ry. & Power Co., Knoxville, plans to expend $550,000 new road bed, passenger cars and equipment, additions, to shops, etc.

Tennessee — See "Unclassified," under Nashville.

BIDS DESIRED

Missouri—May 13, by Bd. Pub. Serv., 208 City Hall, St. Louis, standard gauge railroad with 75 lb. rails, incl. sidings, appurtenances, switches, etc., for new waterworks at Howards Bend. $32,000. E. E. Wall, City Hall, member of Comn.

CONTRACTS AWARDED

New York—R. K. Fuller, comr. Canals & Waterways, Albany, railroad track along Barge Canal Terminal at Rochester, Contr.

Railways (Continued)

95, to Lathrop, Shea & Henwood, 428 Ellicott Sq., Buffalo, $8,748. Noted Mar. 20.

Missouri—United Railways Co., 39th and Park Aves., will reconstruct roadbed with rein.-con., concrete ties and lay tee rails on about 3 mi. Prairie, Victor, 39th, 14th, Garrison, Franklin, 6th and Devonshire Sts., by day labor.

Oregon—Southern Pacific R.R. Co., 65 Market St., San Francisco, Calif., 6 mi. Natron-cutoff, to Henry & McFee, Northern Life Bldg., Seattle, Wash.; 9 mi. Natron-cutoff, to Erickson-Peterson-Grier, Monadnock Bldg., San Francisco, Calif.

Excavation, Drainage, Irrigation

PROPOSED WORK

N. Y., Rochester—R. K. Fuller, comr. Canals & Waterways, Albany, rejected bids Apr. 15, completing excavation of canal channel in Genesee River and placing rock protection along river banks, here, Contr. 214. Noted Mar. 20.

La., Shrewsbury—Bd. Comrs. 4th Jefferson Dist. of Jefferson Parish, will have revised plans prepared (to meet approval of those of the Board who objected to manners of letting under original specifications) for 30 mi. canal. $1,500,000. Noted Feb. 28.

Kan., Newton—Sand Creek D. D. preparing plans cleaning and wiping channel of Sand Creek. $30,000. Ruckel Eng. Co., Interurban Bldg., Hutchinson, engrs.

Canada—See "Unclassified."

Ontario—See "Unclassified."

BIDS DESIRED

New York—May 1, at office of T. Holahan, general contractor, 164 Lewis St., Rochester, excavating and hauling approximately 100,000 yd. earth from village of Fine to Star Lake, St. Lawrence Co., Contr. 8175; adv. E. N.-R. Apr. 24.

New York—May 20, by R. K. Fuller, comr. Canals & Waterways, 55 Lancaster St., Albany, excavating canal channel at various locations between Oriskany and Oneida Lake, constructing settling basin at Nine Mile Creek, Contr. M-2; excavating material within canal prism lines at Medina, Lockport and Tonawanda, Contr. M-3; excavating tail race for Crescent power house and incidental work thereto at Crescent, Contr. A-4; adv. E. N.-R. Apr. 24.

La., Lake Charles—May 15, by Police Jury Calcasieu Parish, Court House, constructing Sects. 4 and 6 of Navigation Channel. F. Shutts, parish engr.; adv. E. N.-R. Apr. 24.

Wis., Appleton—May 8, by Farm Drainage Bd., H. Wieckert, secy., 816 Summer St., 100,000 cu.yd. excav. in D. D. 3, Bear Creek Twp. $18,000. L. M. Schindler, 717 Clark St., engr.

Calif., Blythe—May 3, by Palo Verde Irrigation Dist., 36 mi. open drains, 1,450,000 cu.yd. excav., with structures for road and canal crossings. $350,000. F. F. Friend, ch. engr.

BIDS RECEIVED

Wis., Milwaukee — Dredging various rivers and channels, 116,000 cu.yd., from Great Lakes Dredge & Dock Co., 216 West Water St., $0.4375 per cu.yd. Noted Apr. 10.

CONTRACTS AWARDED

New York—R. K. Fuller, comr. Canals & Waterways, Albany, excavating various locations from Vischer Ferry to west end of Sect. 2, Contr. 217, to Amer. Pipe & Constr. Co., 20 Market St., Amsterdam, $136,225; various locations, Waterford to Whitehall, Contr. 220, to J. W. Holler, Inc., Ft. Edward, $76,077; various locations the canal channel in Mohawk River from Fonda to Lock 16, Contr. 218, to Empire State Dredging Co., 233 Bway., New York City, $141,991. Noted Mar. 20.

Miss., Newton—Scott Co. D. D., c/o J. R. Rowsee, secy., levee and drainage work consisting 1,200,000 cu.yd. excav., to J. E. Brown, Lake, excav. $0.0933 per cu.yd., clearing $20 per acre.

Ark., Newport—Brown Creek D. D. Jackson Co., cutting 6½ mi. ditch to drain 6,000 acres, to empty into Cache River, to Miller & Harris Bros. Constr. Co., Shelby, Miss. Noted Mar. 20.

Ore., Jacksonville—See "Dams."

Calif., Los Angeles — Drainage Impvt. Dist. 8 of Los Angeles Co., constructing drainage system, incl. 63,305 cu.yd. canal excav., 127,038 cu.yd. excav. in conduit trenches, 19,200 cu.yd. concrete, 1,146,000 lb. steel, 6,622 lin.ft. 8 in., 889 lin.ft. 12 in., 1,030 lin.ft. 24 in., 3,970 lin.ft. 30 in., 5,588 lin.ft. 36 in. and 2,898 lin.ft. 48 in. concrete pipe, ditches to be concrete lined, to Francisco & Ellington, 1250 West 5th St., $647,588. Noted Apr. 10.

Streets and Roads

PROPOSED WORK

Vermont—T. W. Dix, ch. engr. State Hy. Dept., Montpelier, takes bids about May 15, paving 2.67 mi. Williston-Turnpike Rd., Federal Aid Project 60A, in South Burlington, 4,500 cu.yd. plain and 525 cu.yd. rein.-con., 5,340 cu.yd. earth excav.

Massachusetts—State Hy. Dept., Boston, plans macadam paving 3 mi. Belchertown Rd., Hampshire Co. Amherst, Hampshire Co. and State will appropriate $30,000, $30,000 and $60,000 respectively. State Hy. Dept., Boston, engrs.

New York—A. W. Brandt, comr. Highways, Albany, received no bids Apr. 18, 6.75 mi. Highway 5523-A, 16 ft., Hamilton Co. $276,009. Noted Apr. 3.

N. Y., Elmira—Bd. Pub. Wks., plans bitulithic resurfacing State St., also concrete curbing and guttering West 1st and West Gray Sts. To exceed $25,000. T. A. Brown, city engr.

N. Y., North Tonawanda—Plans paving 2nd, 7th and Linwood Aves. To exceed $25,000. C. L. Oelkers, city engr.

N. Y., Schenectady — Schenectady Co. voted $81,000 bonds graveling, etc., 8 mi. roads, 16 ft., in Niskayuna, Glenville, Rotterdam, Princeton and Duanesburg.

N. Y., Seneca Falls—Village Bd. Trustees plans paving 15 streets. $130,000. W. M. Follette, village pres.

N. J., Atlantic Highlands—Monmouth Co. (Freehold) takes bids about May 15, 20 ft. rein.-con. paving, etc., Hendrickson Corners to Hoppings Crossing, here. $125,000. G. K. Allen, Jr., 60 Broad St., Red Bank, engr.

N. J., Flemington—Hunterdon Co. plans to repair White House-Flemington Rd. with State aid. $40,000. G. Davis, White House Station, engr.

N. J., Trenton—Pub. Serv. Ry. Co., 80 Park Pl., Newark, plans to pave ¾ mi. Liberty St., asphalt, here. J. E. English, city engr. of Trenton, will supervise construction. $80,000.

N. J., Trenton—Mercer Co. making plans concrete and brick paving 1 mi. Whitehead Rd. $40,000. H. F. Harris, Court House, engr.

Pa., Williamsport—Plans election, $40,000 bonds, paving and curbing.

W. Va., Wheeling—Plans paving with vitr. brick McConoch, Wood, 39th and other streets. $230,000. H. Conrad, Wheeling, engr.

North Carolina—State Hy. Comn., Raleigh, making plans improving roads (**S. P. means State Project**) grading and bridging 6.744 mi. S. P. 580, Randolph Co., $45,000, 4.291 mi. S. P. 422, Franklin Co., $28,000, 8.012 mi. S. P. 415, Durham Co., $50,000, 10.806 mi. S. P. 212, Craven Co., $75,000; grading and concrete or asphaltic paving 12 mi. S. P. 107-B, Bertie Co., $350,000, 2.048 mi. S. P. 890 Yancey Co., $50,000, 4.891 mi. S. P. 812-B, Burke Co., $125,000, 13.392 mi. S. P. 791-B, Yadkin Co., $390,000, 9.038 mi. S. P. 617, Catarrus Co., $380,000, 8.134 mi. S. P. 318, Brunswick Co., $120,000, 7.197 mi. S. P. 266, Pamlico Co., $45,000; grading, paving with waterbound macadam and bridging 10 mi. S. P. 888, Yancey Co., $100,000; grading and sand-clay or top-soiling 16.656 mi. S. P. 134, Gates Co., $116,000. C. M. Upham, Raleigh, highway engr.

Georgia—State Hy. Dept., Atlanta, plans 35 mi. highway through National Forest Reserve, in Union, Fannin and Lumpkin Counties. $65,000. W. R. Neel, state highway engr.

Ga., Clayton—Rabun Co. voted $175,000 bonds, hardsurfacing road from Habersham Co. line to North Carolina line.

Ga., Waynesboro—Sold $45,000 bonds, paving roads.

Fla., Arcadia—De Soto Co. election May 6, $868,431 bonds, constructing roads in Dists. 1, 2, 3, 4 and 5. C. L. Cravens, Arcadia, engr.

Fla., Port Tampa City—Election Apr. 27, $25,000 bonds, paving 1½ mi. streets, (property owners will pay $50,000).

Alabama—State Hy. Dept., Montgomery, plans constructing 41 roads, totaling 744.76 mi. W. S. Keller, state highway engr.

Ala., Hartselle—Plans paving various streets. $25,000.

Miss., Vicksburg—Plans paving municipal landing. $75,000.

Miss., Woodville—Wilkinson Co. will sell $75,000 bonds May 5, for 3 roads out of Centerville, each approximately 6 mi.

La., Homer—Claiborne Co. election Apr. 29, $800,000 bonds, for road work.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, having surveys made improving 20 mi. Trenton-Kenton Rd., 16 ft., Gibson Co. J. G. Creveling, state highway engr.

Tennessee—State Dept. Hy. & Pub. Wks., Nashville, having surveys made grading and surfacing 12 mi. (Jackson Highway), from Columbia to Mt. Pleasant, 18 ft., Maury Co. J. G. Creveling, highway comr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, plans grading and surfacing 12 mi. Murfreesboro-Cannon Co. Rd., 18 ft., Rutherford Co. J. G. Creveling, highway comr.

Tennessee—State Dept. Hys. & Pub. Wks., Nashville, soon takes bids grading and surfacing with bituminous macadam on limestone 8 mi. Cookeville-Overton Co. line Rd., 16 ft., Putnam Co.; 5 mi. Manchester-Beech Grove Rd., 9 ft., (probably concrete), Coffee Co. J. G. Creveling, state highway comr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, soon takes bids grading and surfacing with bituminous macadam on limestone 11 mi. McMinnville-Rock Island Rd., 18 ft., Warren Co., probably with gravel 9.53 mi. road from Davidson Co. line to Dickson Co. line Rd. (part of Memphis-Bristol Rd.), 18 ft., Cheatham Co.; oil surface treating 20 mi. Hohenwald-Lawrence Co. Rd., 18 ft., Lewis Co.; grading 4.5 mi. Algood-Overton Co. Rd., Putnam Co., 9 mi. Covington-Shelby Co. Rd., 18 ft., Tipton Co., 6 mi. Gibson Co.-Jackson Rd., 18 ft., Madison Co., 2.5 mi. Humbolt-Madison Co. Rd., 18 ft., Gibson Co. J. G. Creveling, comr.

Tenn., Columbia—Maury Co. plans repairing and limestone surfacing various roads. $71,000. J. H. Wilkes, supt. roads.

Tenn., Elizabethtown—Carter Co. plans 5 mi. asphalt surfacing Elizabethtown-Bluffton City Rd. $100,000.

Tenn., Greenville—Green Co. voted $30,000 bonds, improving 6 mi. road from Greenville east toward North Carolina State line, probably limestone.

Tenn., Nashville—Plans widening to 50 ft., paving, etc., 7 blocks Church St. $200,000. W. W. Southgate, city engr.

Tenn., Ripley—Lauderdale Co. election May 6, $400,000 bonds, road from Ripley to Dyer Co. line.

Tenn., Savannah—City Comn. plans concrete paving, curbing, guttering and sidewalks for school and residential district. $25,000.

Kentucky—State Hy. Dept., Frankfort, rejected bids shaping and paving 19.22 mi. Henderson-Madisonville Rd., 18 ft., Federal Aid Project 34, Sect. F, Webster Co. Will readvertise. Noted Apr. 17.

Ohio—Dept. Highways & Pub. Wks., Columbus, cancelled bids which were to be opened Apr. 11, grading, bridging and paving 12.265 mi. roads in Columbiana, Portage, and Trumbull Counties. Noted Apr. 3.

O., Canton—Plans widening and asphalt resurfacing ½ mi. Market Ave. N. $40,000-$50,000. W. A. Sarver, City Hall, engr.

O., Canton—Stark Co. plans resurfacing 2 mi. Alliance-Fairmont Rd., 20 ft. $50,000-$55,000. A. M. Wise, Court House, engr.

O., Columbus — Making plans grading, laying necessary water services and sewer connections and paving 4,089 ft. Melrose and Milford Aves., Bassett and 9th Sts., 24 ft., brick $69,979, asphalt $57,715; 5,495 ft. Brehl Ave., Cole and Bruck Sts., 26 ft., brick $95,802, asphalt $76,189; 288 ft. alley north of 16th Ave., 15 ft., brick $1,854, concrete $1,643; 1,127 ft. 5th St., 40 ft., asphalt $16,511; 642 ft. alley north of Frambes Ave., 23.5 ft., brick $6,389, concrete $5,704; 6,594 ft. 17th Ave., 30 ft., brick $88,120, asphalt $71,420; 374 ft. alley west of Carpenter St., 20 ft., brick $3,138, concrete $2,780. R. H. Simpson, city engr.

O., Columbus — Making plans grading, laying necessary water services and sewer connections and paving 1,464 ft. alleys north of Oakland and 14th Aves., 20 ft., brick $12,855, concrete $11,381; 1,437 ft. Olmstead Ave., 26 ft., brick $26,590, asphalt $22,799; 656 ft. alley north of Patterson Ave., 18 ft., brick $4,633, concrete $4,104; 358 ft. alley north of Reinhard Ave., 15 ft., brick $2,322, concrete $2,049. R. H. Simpson, city engr.

O., Dayton—Plans paving Orchard Ave., rein.-con., $16,609; 5th St., granite block, $52,435; South Bway., brick or asphalt, $9,736; Cambridge and Pritz Aves., Kentucky rock asphalt or concrete, $51,500; Western Ave., brick, $20,459. J. F. Hale, city engr.

Ind., New Albany—Plans paving Market St. from Silver to Beharrel Ave., $22,129; 4th St. from Spring to Elm Sts., $4,053; Market St. from Thomas to Silver Sts., $12,751, all foregoing 30 ft. concrete road-

Streets and Roads (Continued)

way. J. D. Mitchell, New Albany, assistant city engr.

Michigan — State Hy. Dept., Lansing, plans to grade (**S. T. L. Rd. means State Trunk Line Rd.**) 3.25 mi. S. T. L. Rd. 14-12, Hillsdale Co., 4.5 mi. S. T. L. Rd. 14-55, Lenawee Co., 7 mi. S. T. L. Rd. 14-18, Lenawee Co.; grading and gravel surfacing 2.5 mi. S. T. L. Rd. 22-10, Leelanau Co., 5 mi. S. T. L. Rd. 20-17, Lake Co., 5 mi. S. T. L. Rd. 20-3, Sect. B, Lake Co.; grading and surfacing with concrete, bituminous concrete or sheet asphalt 3 mi. S. T. L. Rd. 14-40, Jackson Co., 0.642 mi. S. T. L. Rd. 29-2, Eaton Co., 10.175 mi. Federal Aid Project 67, Sect. E, Washtenaw Co., 13.981 mi. Federal Aid Project 95, Sect. D, Lenawee Co.; grading and surfacing with penetration macadam 2 mi. S. T. L. Rd. 12-42, Iron Co. G. C. Dilman, ch. engr.

Michigan — State Hy. Dept., Lansing, plans to grade and surface 4.994 mi. State Trunk Line Rd. 25-12 B, Chippewa Co., 46,879 sq.yd. gravel, waterbound or bituminous macadam; State Trunk Line Rd. 35-2, Delta Co., 42,640 sq.yd. penetration macadam; 0.467 mi. State Trunk Line Rd. 10-37 B, Presque Isle Co., 5,477 sq.yd. asphalt, concrete or bituminous concrete.

Mich., Detroit—Having plans prepared paving with 3½ in. sheet asphalt on 8 in. concrete 9,280 sq.yd. Linwood Ave. $46,400, 2,770 sq.yd. Gunston Ave. $13,880, 3,900 sq.yd. Petoskey Ave. $19,580, 2,140 sq.yd. Prairie Ave. $10,710, 4,320 sq.yd. Parkside Ave. $21,620, 7,830 sq.yd. Rosemary St. $39,150, 7,590 sq.yd. Wilshire Ave. $37,960, 3,350 sq.yd. Prairie Ave. $16,740. G. Jerome, city engr.

Mich., Holland—Having plans prepared grading and paving various streets, 32,500 sq.yd. sheet asphalt on 6 in. waterbound macadam or concrete. $100,000. R. Overweg, clk.

Ill., Champaign—Soon takes bids grading and surfacing with rein.-con., asphaltic concrete or brick on concrete, 7,900 ft. University Ave., South 2nd and Charles Sts., 30 ft. wide. $83,000. F. C. Lohman, City Hall, engr.

Ill., Salem—Having preliminary plans prepared grading, and concrete surfacing 11,000 ft. road. $100,000. Caldwell Eng. Co., 502 Ayres Bldg., Jacksonville, engrs.

Wisconsin—See "Contracts Awarded."

Wis., Cudahy—Making plans rein.-con. paving 1 mi. Van Norman and Pulaski Aves., 30 ft. $30,000. R. Steinhagen, City Hall, engr.

Wis., Ladysmith—Plans to pave 7 blocks. $33,000 bonds voted. C. C. Kile, city clk.

Wis., Wausau—Making plans paving 10,000 sq.yd. Chicago Ave., Bridge, Adams, Plumer and Lemke Sts. B. C. Gowen, City Hall, engr.

Minn., Alexandria—Douglas Co. plans to sell $175,000 bonds this summer for road improvements. A. Waster, Alexandria, engr.

Kan., Oskaloosa—Jefferson Co. soon takes bids grading and surfacing with vitr. brick or concrete 0.97 mi. Federal Aid Project 227, Sect. B, 18 ft., Dodd & Finney, 216 West 6th St., Topeka, engr.; with bituminous macadam 7.7 mi. Federal Aid Project 220, Sect. A, 18 ft., and 5.5 mi. Sect. B, 18 ft., Eidmann & Marshall, Smith Bldg., Topeka, engrs.; grading Federal Aid Project 222, 6.249 mi., Sect. A, 28 ft., 7.387 mi. Sect. B, 28 ft., 5.275 mi. Sect. C, 28 ft., surfacing with bituminous macadam, vitr. brick or concrete 0.528 mi. Sect. D, 18 to 59 ft. Address R. C. Ham, co. engr., and for Sects. A, B and C. Eidmann & Marshall, Smith Bldg., Topeka, engrs. for Sect. D. Noted Apr. 3.

N. D., Bismarck—Burleigh Co. plans grading 8 mi. Sterling-Moffitt Rd. $26,000.

Montana—State Highway Comn., Helena, plans gravel surfacing 8 mi. Project 205A, Granite Co., $48,000; 3.5 mi. Project 191A, Pable-Polson Rd., Lake Co., $60,000; 4 mi. Project 202, Sanders Co., $26,000; 18 mi. Project 212 A, road from Crow Agency to Lodge Grass, Big Horn Co., $125,000; 3 mi. Project 208 B, $28,000 and 3 mi. Project 209 B, Gallatin Co., $28,000; 6 mi. Project 210, road up Divide Creek Hill in Glacier Park, $50,000; 27 mi. Project 152, road across Ft. Belknap Reservation and several bridges, Blaine and Phillips Counties, $270,000; 16 mi. road in Fort Peck Indian Reservation, Valley Co., $150,000.

Mo., Lees Summit—Making preliminary plans grading, concrete curbing, guttering and surfacing 9 blocks 3rd and Douglas Sts., 26 ft., concrete or asphaltic concrete. $32,500.

Mo., St. Louis — Bd. Pub. Serv. soon takes bids improving 4,210 sq.yd. Cora Ave., asphalt, $21,500; 17,220 sq.yd. Virginia St., bitulithic, $90,000. W. W. Horner, city engr.

Ark., Little Rock—Soon takes bids grading and surfacing with asphalt on concrete, asphaltic concrete or rein.-con. 9,500 ft. Street Impvt. Dist. 363. $100,000. H. R. Carter, Exch. Bank Bldg., engr.

Ark., Pine Bluff—Soon takes bids grading, surfacing with asphalt or asphaltic concrete on concrete, concrete curbs and gutters in Street Dist. 72. $100,000. Guest Eng. Co., City Hall, engrs. Noted Feb. 28.

Ark., Springdale — Making preliminary plans grading and paving 4,200 ft. in Dist. 1, rein.-con., asphalt on concrete, asphaltic concrete or brick on concrete. $39,000-$48,000.

Ark., Texarkana—Plans paving in Dist. 20. $100,000. G. T. Conway, mayor.

Ark., Texarkana — Making preliminary plans grading, surfacing with brick on concrete, rein.-con. or asphalt 8 blocks Pecan St., 30 ft. $28,000.

Tex., Anson—Jones Co. election May 3, $500,000 bonds, constructing roads. J. F. Lindsey, co. judge.

Tex., Bay City — Matagorda Co. had plans prepared grading and shell surfacing 4.89 mi. State Highway 60, 15 ft. $44,800. J. C. Carrington, Bay City, engr.

Tex., Coleman—Coleman Co. election soon $100,000 bonds, gravel surfacing 12 mi. highway from here to Brown Co. line, Precinct 1, 18 ft. A. E. Dickerson, co. engr.

Tex., Colorado—Mitchell Co. plans new election soon $325,000 bonds, concrete paving State Highway 1. Former election defeated. F. F. Du Bose, co. engr. Noted Feb. 28.

Tex., El Paso—Election Apr. 30, $100,000 bonds for permanent street paving, and $50,000 bonds street and alley grading. Address Mayor Dudley.

Tex., Ft. Worth—Making plans Camp Bowie Blvd. from West 7th St. to city limits, 80 ft. paving or two 27 ft. drives with esplanade, alternate bids on miscellaneous types of standard paving. $100,000. D. S. Lewis, city engr.

Tex., Gonzales — Gonzales Co. making plans improving 20 mi. highway, 18 ft. State and Federal aid granted, total $375,000. J. G. Irby, co. engr.

Tex., Groveton—Trinity Co. voted $60,000 bonds, roads in Dist. 3. W. J. Kelly, Trinity, co. engr.

Tex., Henderson—Voted $75,000 bonds paving various streets. H. N. Roberts, Court House, Lubbock, engr. Noted Apr. 3.

Tex., Houston — Making plans paving Woodleyer Addition, inverted penetration. $25,000. Howe & Wise, Commercial Natl. Bank Bldg., engrs.

Tex., Lufkin — Angeline Co. making plans grading and gravel surfacing 15.64 mi. State Highway 63, 16 ft. $150,000. G. R. Abney, co. engr.

Tex., McKinney — Making plans paving South Benge St., et al., standard types pavement, to exceed $25,000.

Tex., New Boston—Bowie Co. election May 24, $490,000 bonds, hard surfaced roads in Precinct 1. F. E. Hess, Medical Arts Bldg., Dallas, co. engr.

Tex., New Braunfels—Comal Co. election Apr. 26, $92,000 bonds, roads in Dist. 1. C. Roeper, co. judge.

Tex., Raymondville—Willacy Co. election soon, $250,000 bonds improving 18.24 mi. highway from Cameron Co. line to Kenedy Co. line, 20 ft., gravel or concrete base, tarvia top. Address County Judge.

Tex., Sequin — Guadalupe Co. defeated $1,100,000 bonds highway improvements. L. Taylor, co. engr. Noted Mar. 13.

Tex., Vernon—Wilbarger Co. voted $150,000 bonds improving roads Precinct 1 Rd. Dist. J. B. Nabors, co. engr. Noted Mar. 6.

Tex., Wichita Falls—Wichita Co. election Apr. 26, $500,000 bonds, roads in Dist. 1. J. M. Isbell, co. engr.

Tex., Winnsboro—Plans paving streets business district, alternate bids, standard types pavement. $25,000. Engineer not announced.

Okla., Bristow—Plans grading and paving 6 blocks 11th St., 6,000 sq.yd. vertical fibre brick, 3,600 lin.ft. curbing, 1,800 cu. yd. excav. $30,000. Berwin & Wilson, Henryetta, engrs.

Okla., Clinton—Plans grading and paving 12 blocks Frisco, Arapho, and Cheyenne Sts., 8,600 sq.yd. asphalt, 7,000 lin. ft. curbing, 2,800 cu.yd. excav. $55,000. B. M. Hart, City Hall, Oklahoma City, engr.

Okla., Grandfield—Completed plans 20,000 sq.yd. paving. $50,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Colo., Denver—Making plans concrete paving 12 blocks Alley Paving Dist. 117, $25,000; asphalt paving 12 blocks South Capitol Hill Paving Dist. 5. $35,000. A. K. Vickery, City Hall, engr.

Nevada—State Highway Comn., Carson City, rejected bids concrete paving 1.27 mi. 1st and Ultman Sts. to east city limits of Ely, White Pine Co. Noted Apr. 10.

Wash., Everett—City Council takes bids about Mar. 11, paving Oakes Ave. from Hewitt to 35th Sts. $34,170. S. E. Paine, Everett, engr.

Wash., Mt. Vernon—Comrs. Skagit Co. rejected bids paving Wickersham-Sedro Woolley Rd., 70,000 sq.yd. 7 in. concrete. Will readvertise. Noted Apr. 17.

California—Redding-Millville Hy. Assn., Redding, had plans prepared grading 4.24 mi., road between Millville and Shingleton, Shasta Co., 16 ft. C. R. Wiegel, Redding, engr.

California—State Highway Comn., Sacramento, having plans prepared improving 13 mi. highway between Woodland and Solano Co. line, Yolo Co., widening highway by placing 2 ft. concrete shoulders on each side of existing pavement; between Santa Rosa and Healdsburg, Sonoma Co., widening highway from 15 to 20 ft. and resurfacing with concrete, to exceed $25,000; Tahoe-Ukiah Hy. west of Williams, Colusa Co., grading and graveling, $80,000 (Colusa Co. to pay $40,000). R. M. Morton, state highway engr.

Calif., Huntington Beach — Had plans prepared improving Coast Blvd. unit of Ocean Ave., 95,675 sq.ft. subgrade, 95,675 sq.ft. 4 in. asphaltic concrete base, 95,675 sq.ft. 2 in. Willite plastic composition wearing surface. W. R. Wright, city clk.

Calif., Los Angeles—Had plans prepared improving Normandie Ave. between Jefferson and Santa Barbara Aves., 5,859 cu.yd. cut, 1,494 sq.ft. 5 in. concrete, 207,752 sq. ft. 1½ in Warrenite-bitulithic with paint binder on 5 in. concrete base, 11,487 sq.ft. 2 in. bituminous base, 2,092 sq.ft. walks, 11,221 sq.ft. gutters, etc. J. A. Griffin, city engr.

Calif., Monterey — Salinas Co. having plans prepared constructing 5 mi. Carmel-Pacific Grove Rd. To exceed $55,000. H. Cozzens, co. surv.

Calif., Piedmont (Branch of Oakland)—Had plans prepared improving streets in Harmon Bell Tract, (private project) incl. macadam pavements, walks, curbs and gutters. From $60,000 to $70,000. E. C. Prather, Syndicate Bldg., Oakland, consult. engr.

Calif., Placerville—Plans to vote on $35,000 bonds, to improve streets, construct bridges and lay water mains.

Calif., Quincy—Plumas Co. having surveys made highway between here and Butte-Plumas Co. line. $115,000 or more. A. L. Watson, co. surv.

Calif., Redwood City — San Mateo Co. having estimates made improving portion Half Moon Bay-San Mateo, Rd. Dists. 2 and 4. $25,000 or more. G. A. Kneese, co. surv.

Calif., San Francisco—Having plans prepared paving streets fronting city property, $25,000 or more; constructing South Outlet for Great Highway project, grading, paving, etc., $41,500; grading Evans Ave. and paving Douglas St., to exceed $30,000. M. M. O'Shaughnessy, city engr.

Calif., San Mateo—Had plans prepared improving Hayward Ave. and Crystal Springs Rd., 29,000 sq. ft. 7 in. concrete, 9,700 sq.ft. 4½ in. concrete with 1½ in. asphaltic concrete surface, 1,200 cu.yd. excav., removing 1,050 lin.ft. parkway curb, etc. C. F. Price, city engr.

Calif., Sausalito — Had plans prepared improving various streets, 26,000 cu.yd. grading, 2,185 cu.yd. concrete, 13,200 lin.ft. concrete curb and gutter, 7,400 lin.ft. grouted rock curb and gutter, 165,000 sq.ft. bituminous macadam, 60,000 sq.ft. local macadam shoulders, 1,100 lin.ft. 12 in. and 64 lin.ft. 36 in. corrugated iron pipe, etc. Howe & Peters, 24 California St., San Francisco, engrs.

Calif., Venice—Had plans prepared paving portion 36th, 37th, 38th and 39th Aves., 5 in. concrete, concrete retaining walls, also 2 centrifugal pumps with two 5 hp. motors and sanitary sewer system. To exceed $25,000. J. B. Griffin, city engr.

Ont., Chatham—Kent Co. having plans prepared 3½ mi. macadam road from Dresden to Wabash. $100,000. W. G. McGeorge, Chatham, engr.

Ont., Listowel—Plans concrete paving Argyle, Dodd and road to Fairview cemetery. $25,000. Prices wanted on materials. E. D. Bolton, Listowel, engr.

Ont., Oshawa — Plans to pave 2 mi. streets with 26,000 sq.yd. asphalt on concrete. $100,000. W. C. Smith, city engr.

Ont., Ottawa—Having plans prepared asphalt pavements on ½ mi. Branson, Powell and Findlay Aves., 40 ft., $23,623. A. F. Macallum, city engr.

Streets and Roads (Continued)

Ont., Ottawa—Carleton Co. plans 6 mi. new macadam roads. $185,000.

Ont., Ottawa—Carleton Co. voted $100,000 bonds improving county highways, $129,500 for Provincial Highways, and $52,000 for county suburban roads. Patterson & Byron, 57½ Sparks St., and A. K. Hay, 279 Carling Ave., engrs.

Ont., Owen Sound — Grey Co. Council having plans prepared rebuilding and improving highways and laying new cement roads. $150,000. J. Johnstone, County Bldg., co. rd. supt.

Ont., St. Catharines—Lincoln Co., plans to expend $103,393 repairing highway system.

Ont., Toronto—Plans concrete pavements on lane south of Wellesley St. $9,466, Chaplin Crescent $7,717. Duplex Ave. $3,749; concrete sidewalks on Snowdon Ave. $2,346; asphalt surface on Blackmore Rd. $1,461; asphalt or bitulithic on concrete, Main St. $10,398, Swanich Ave. $6,847; Kendal Ave. $1,534, Strath Allan Blvd. $28,038, Pine Hill Rd. $2,609, Weller St. $7,493, St. Clair Ave. $20,670, Hogarth Ave. $7,803, Oriole Parkway $15,776; cement concrete walks on Oriole Parkway $1,718, Beaufort Rd. $10,188, Manor Rd. $4,395, Ridout St. $1,043, Cavendish St. $4,823, Golfdale Rd. $3,322, Springmount Ave. $3,303, and Winthorpe Rd. $7,469. R. C. Harris, city engr.

BIDS DESIRED

Mass., Chicopee—See "Bridges."

Rhode Island—Apr. 30, by State Bd. Pub. Rds., Providence, furnishing and applying 250,000 gal. asphaltic oil or refined tar; adv. E. N.-R. Apr. 24.

New York—May 9, by A. W. Brandt, comr. highways, Albany, constructing and reconstructing highways in Allegany, Chenango, Fulton, Genesee, Greene, Hamilton, Herkimer, Livingston, Montgomery, Rensselaer, Saratoga, Tioga, Warren and Washington Counties; adv. E. N.-R. Apr. 24.

N. Y., Brooklyn—May 1, by Park Bd., Municipal Bldg, New York, repairing roadway pavement on parkways and park roads, sheet asphalt and concrete, during 1924; grading, curbing and paving Fort Hamilton Parkway, sheet asphalt on concrete, here. F. D. Gallatin, pres.

N. Y., Buffalo—May 1, by Commissioner Pub. Wks., paving and repaving Trenton Ave., West Utica, Melrose and Theodore Sts., vitr. brick or asphalt on 6 in. concrete. To exceed $50,000. C. E. P. Babcock, Municipal Bldg., engr.

N. Y., Long Island City—Apr. 29, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., regrading and laying sidewalk in westerly sidewalk space, etc., in Himrod St.; curbing and laying sidewalks where necessary in Hinman St., 159th (Prospect) St. from South Rd. to 107th Ave. (Atlantic St.), 159th (Prospect) St. from 107th to 108th Aves. (Cumberland St.); grading, curbing and laying sidewalks, etc., on 2nd Ave.; repairing sheet asphalt pavement, etc., in 1st and 2nd Wards.

N. Y., New York—May 1, by Park Bd., Municipal Bldg., paving roadway and walks of new roadway entrance to Central Park, 6th Ave. and 59th St., asphalt on concrete; paving and repaving where directed walks of Harlem River driveway, asphalt mastic. F. D. Gallatin, pres.

N. Y., Poughkeepsie — May 1, by Bd. Pub. Wks., paving Delafield, Mill, Conklin, Grant, Harrison, Thompson, Cannon and Franklin Sts., also storm sewer in Delafield St. T. F. Lawlor, supt.; adv. E. N.-R. Apr. 24.

New Jersey—May 5, by State Hy. Dept., Trenton, concrete paving 3 mi. Route 9, Sect. 11, Lincoln Ave. in Plainfield, Union Co., also 5,222 sq.yd. Route 16, Sect. 8, Harlingen cut-off, Somerset Co. W. G. Sloan, 1st Natl. Bank, Trenton, engr.

N. J., Irvington (branch of Newark)—Apr. 25, by Bd. Town Comrs., curbing and paving, etc. Vermont Ave., 2,270 sq.yd. asphaltic concrete on 6 in. concrete, 2,256 sq.ft. cement sidewalks; 13,560 sq.yd. Berkshire Pl., Ruth St., Campfield Pl., Madison and Fern Aves., rein.-con. I. J. Casey, Jr., town engr.

N. J., Neshanic (Neshanic Sta. P. O.)—May 6, at Township Rooms, constructing Neshanic-Clover Hill Rd., est. "A" 24,038 lin.ft. excav., 23,902 sq.yd. rock bottom, 18,832 sq.yd. 6 in. and 23,902 sq.yd. 3 in. cinder pavement, 32,051 gal. bituminous material, etc., est. "B" 24,038 lin.ft. excav., 13,445 sq.yd. rock bottom, 10,593 sq.yd. 6 in. and 13,445 sq.yd. 3 in. cinder pavement, 18,029 gal. bituminous material, etc. H. C. Van Emburgh, 149 North Ave., Plainfield, engr.

N. J., Newark—Apr. 28, at office of T. L. Raymond, dir. Pub. Wks., grading, curbing and flagging North 10th and 11th Sts; grading, curbing, flagging and asphalt paving Pine Grove Terrace and Sunset Ave.; paving 18th Ave., napped reclipped granite block, Court and High Sts., napped reclipped granite block and asphalt; resurfacing Conklin Ave., asphalt. $165,468.

Pa., Johnstown—Apr. 28, by City Council, grading and paving, and storm and sanitary sewers in following: Village St., Russel, Cypress and Linden Aves., Contr. 2401; Weimer and Wesley Alleys, Watson, Good, Franklin, Saylor and Hershberger Sts. Contr. 2402; Blenny Alley, Virginia, Beatrice, Edith, I and Rheam Aves., Daniel and Stone Sts., Contr. 2403; Joseph Ave., Murdock, Hickory and Grant Sts., Sandy, Robb, Ebbert, Seigh, Wise, Ream, Shank, Solomon and Hill Alleys, Contr. 2404. $200,000. H. L. Wilson, city engr.

Maryland—Apr. 29, by State Rds. Comn., Baltimore, concrete paving roads in Garrett, Frederick, Harford and Talbot Counties, Contrs. G-27A, F-70, H-32, H-39 and T-18, macadam resurfacing road in Washington Co., Contr. W-31. J. N. Mackall, chn.; adv. E. N.-R. Apr. 24.

Maryland—May 6, by State Rds. Comn., Baltimore, macadam resurfacing, paving with sheet asphalt and concrete 6 sections of highway in Baltimore, Frederick, Calvert, Kent and Talbot Counties, Contrs. B-50, B-61, F-78, C-18, K-24 and T-17. J. N. Mackall, chn.; adv. E. N.-R. Apr. 24.

Md., Baltimore—Apr. 30, by Bd. Awards, redressing granite block and granite block liners during 1924. B. L. Crozier, City Hall, highways engr.

W. Va., Charleston—May 6, by Kanawha Co., paving 1.3 mi. Campbells Creek Rd., Project 104, plain concrete or penetration macadam. R. N. Moulton, clk. Noted Apr. 3.

W. Va., Wheeling—May 3, by City Clerk, paving with brick or sheet asphalt on rein.-con. 25,900 sq.yd. McColloch, Wood, 43rd, 42nd and 39th Sts., incl. 1,680 cu.yd. concrete walls, also for 1,086,120 repressed paving blocks, etc. H. A. Conrad, city engr. Noted Apr. 24.

W. Va., Kingwood—May 5, by Preston Co., grading and draining five 1 mi. projects in Valley Dist., (1) from Reedsville to Ward Browns Mills (2) from Reedsville toward Morgantown (3) from Masontown toward Rohe (4) from Masontown toward Bull Run (4) from Masontown toward Herring. Separate bids will be received for each project, also grading and draining, constructing base, surfacing with bituminous macadam, Projects 1 and 2, for 9 ft. and 16 ft., Projects 3, 4 and 5, 9 ft. P. F. King, co. clk.

S. C., Moncks Corner—Apr. 30, at office Berkeley Co. Hy. Comn., constructing 10 mi. sand clay road on State Route 31, State Project S-517, W. C. Cathey, Scoville Bldg., Orangeburg, engr.

Ga., Augusta — May 8, by Permanent Paving & Civic Improvements Com., paving Walton Way, Broad, 13th and Weed Sts. W. H. Wise, city engr. and comr. Pub. Wks.

Miss., Greenville—Apr. 28, by Washington Co. Hy. Comn. grading 60,000 cu.yd. Leland-Helm Rd. E. C. Wild, Leland, engr.

Louisiana—Apr. 29, by State Hy. Dept., Reymond Bldg., Baton Rouge, 8 mi. Project 337, C, Leesville-Alexandria Highway, Vernon Parish, J. M. Fourmy, ch. engr.

Ky., Whitesburg — Comrs. Letcher Co. taking bids and opens same about May 20, section Kentucky-Virginia Highway. $100,000. Noted Mar. 27.

Ohio—May 2, by Dept. Highways & Pub. Wks., Columbus, grading, bridging and paving 84.6964 mi. roads in Allen, Ashland, Ashtabula, Butler, Columbiana, Crawford, Franklin, Gallia, Geauga, Hancock, Licking, Mahoning, Marion, Pike, Portage, Putnam, Sandusky, Seneca, Trumbull, Union and Wood Counties. A. V. Donaheys, dir. highways.

O., Cleveland—Apr. 30, grading, curbing and paving Angelus Ave. S. E., Folk Ave. N. E., Heah Ave. S. E., Hough Ave. S. E., Huron Rd. S. E., Mapleside Rd. S. E., Raymond Ave. S. E., East 33rd, East 112th, East 137th and East 153rd Sts., East 55th St. from Woodland Ave. S. E. to Grand Ave. S. E., East 55th St. from Scovill Ave. S. E., to Carnegie Ave. S. E., East 55th St. from Scovill Ave. S. E. to Woodland Ave. S. E. R. Hoffman, city engr.

O., Garfield Heights (Cleveland P. O.)—May 9, grading and laying concrete or stone sidewalks on 32 streets. $150,000. R. F. Munz, Town Hall, engr.

Ind., Evansville—Apr. 30, by Bd. Pub. Wks., paving 3 mi. streets, asphalt, brick, concrete and asphaltic concrete. J. D. Saunders, engr.

Ind., Warsaw — May 1, by Comrs. Kosciusko Co., concrete paving 53,880 sq. yd. James M. Turner Rd., $151,679; grading and gravel surfacing 15,840 ft. E. Dubbs Rd., 18 ft., $27,421, 15,821 ft. James H. Dill Rd., 18 ft., $26,336.

Michigan—May 7, by State Hy. Dept. at office Comrs. Kent Co., Grand Rapids, grading and surfacing 5.87 mi. State Trunk Line Rd. 13-50, A, Kent Co., 69,358 sq.yd. concrete, bituminous concrete or sheet asphalt.

Michigan—May 8, by State Hy. Dept. at office Comrs. Ontonagon Co., Ontonagon, grading and surfacing 2.057 mi. State Trunk Line Rd. 28-11, 19,306 sq.yd. gravel, 5,618 tons stamp sand.

Michigan—May 8, by State Hy. Dept. at office Comrs. Presque Isle Co. (Rogers), grading and surfacing 1.296 mi. State Trunk Line Rd. 10-37, Sect. A, 15,354 sq. yd. asphalt, concrete or bituminous concrete.

Michigan—May 9, by State Hy. Dept., at office Comrs. Muskegon Co., Muskegon, grading and surfacing 2.35 mi. State Trunk Line Rd. 24-26, 24,811 sq.yd. asphalt, concrete or bituminous concrete.

Michigan—May 12, by State Hy. Dept. at office Comrs. Missaukee Co., Lake City, grading and surfacing 3.32 mi. State Trunk Line Rd. 66-16, 31,810 sq.yd. asphalt, concrete or bituminous concrete.

Mich., Otsego—Apr. 30, by W. P. Jones, city clk., 26,000 sq.yd. concrete pavement, 13,000 lin.ft. curb and gutter. A. Lenderink, Kalamazoo, engr.; adv. E. N.-R. Apr. 24.

Ill., Elmhurst — May 5, by City Clerk, 65,000 sq.yd. paving with either vibrolithic warrenite, asphaltic concrete or rein.-con., 51,000 lin.ft. curb and gutter, 5,000 sq.ft. sidewalks adjusted, etc. $300,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Wisconsin—Apr. 30, by State Hy. Comn. at div. office 7, Court House, Rhinelander, grading and gravel surfacing Woodruff-Eagle River Rd., Project 344, Vilas Co., 46,630 cu.yd. earth excav., 4,978 cu.yd. top soil, 8,868 cu.yd. featheredge gravel, etc. A. R. Hirst, state highway engr.

Wisconsin—May 2, by State Hy. Comn. at div. office 1, State Capitol Annex, Madison, grading and surfacing Portage-Kilbourn Rd., Federal Aid Project 360, Sects. B and C, Columbia Co., incl. 55,938 cu.yd. earth excav., 22,798 cu.yd. top dressing, 11,244 cu.yd. gravel surfacing, etc. A. R. Hirst, Madison, state highway engr.

Wis., Fond du Lac—Apr. 30, by G. Treleven, comr. Fond Du Lac Co., grading, etc., 4.57 mi. Kewaskum-Campbellsport-Marblehead Rd., 17,600 cu.yd. earth and 1,500 cu.yd. loose rock excav., etc., 6.02 mi. Kinkers Corners West on County Trunk H, 15,800 cu.yd. earth, 5,500 cu.yd. loose rock and 1,768 cu.yd. borrow excav. Wisconsin Hy. Comn., Stephenson Bldg., Milwaukee, engrs.

Wis., Milwaukee—Apr. 28, by Dept. Pub. Wks., concrete paving, etc., 16,306 sq.yd. various alleys.

Ia., Des Moines—May 1 by Auditor Polk Co., grading 3.67 mi. Elkhart-Cambridge Rd., 2.5 mi. Army Post Rd., 2.76 mi. Hastie Rd. To exceed $25,000. F. O. Loing, co. engr.

Ia., Shenandoah—May 2, by F. H. Sanman, city clk., paving 6 blocks. $26,000.

Kan., Oskaloosa—May 16, by Clerk Jefferson Co., grading 6.958 mi. Federal Aid Project 227, Sect. A, 295 cu.yd. concrete, 3,500 cu.yd. barrow, 1,665 ft. bridge to be removed, 22,102 lb. reinforcing, 38,734 cu. yd. earth and 385 cu.yd. rock excav. R. C. Ham, co. engr.

N. D., Stanley—May 6, by F. J. Haines, aud. Mountrail Co., 6 mi. Federal Aid Project 248, 48,357 cu.yd. excav., etc., also 3.3 mi. Federal Aid Project 250 B, 24,399 cu.yd. earth and 4,888 cu.yd. rock excav., etc. $31,000.

Wyoming — May 2, by State Highway Comn., Cheyenne, seven grading projects. $300,000. Z. E. Sevison, state highway engr.

Ark., Pine Bluff—May 3, by Bd. Impvt. Dist. c/o Coleman & Gantt, 615 Citizens Bank Bldg., improvements in Paving Dist. 77, incl. 5,318 cu.yd. excav., 23,100 sq.yd. rein.-con., 14,000 lin.ft. curb and gutter, etc. F. Bennett, 410 Citizens Bank Bldg., engr.

Tex., Corpus Christi—May 6, by H. R. Sutherland, judge Nueces Co., grading, gravel surfacing and bituminous topping State Highway 12-A, Federal Aid Project 424-A, 3,915 cu.yd. roadway and 17,373 cu.yd. borrow excav., 49,113 sq.yd. bituminous macadam, 9,208 cu.yd. gravel and 9,208 cu.yd. limestone. C. E. Cocke, co. engr.

Streets and Roads (Continued)

Tex., Dallas—May 15, by A. D. Allen, judge Dallas Co., grading, crushed stone base with 2 in. Uvalde rock asphalt topping, etc., on 3.3 mi. State Highway 1, east of Mesquite, 18 ft. $55,000. Nagle Witt Rollins Eng. Co., Courthouse, co. engrs.

Tex., Georgetown — May 13, by F. D. Love, judge Williamson Co., grading, etc., 8.48 mi. State Highway 29, Liberty Hill-Leander Rd., 24 ft. $40,750. R. A. Nichols, co. engr.

Idaho, Emmett—May 5, by City Council, paving various streets and replacing present wood stone water mains with c.i. pipe. H. D. Carmichael, city clk.; adv. E. N.-R. Apr. 24.

Nevada — Apr. 30, by State Highway Comn., Carson City, road between Eureka and Eureka east county line, 63,000 cu.yd. excav. unclassified, 19,290 yd. sta. overhaul, preparing 10.16 mi. subgrade and shoulders, 11,000 cu.yd. load and screen gravel, 17,300 yd. mi. haul gravel, 11,000 cu.yd. spread gravel, etc.; from Campbell Creek Ranch to Summit of railroad pass, Lander Co., 66,000 cu.yd. excav. unclassified, preparing 18.02 mi. subgrade and shoulders, 21,000 cu.yd. load and screen gravel, 40,000 yd. mi. haul gravel, 21,000 cu.yd. spread gravel, etc.; between west county line and Pancake summit, White Pine Co., 70,000 cu.yd. excav. unclassified, 15,782 yd. sta. overhaul, preparing 13.65 mi. subgrade and shoulders, 15,000 cu.yd. load and screen gravel, 24,400 yd. mi. haul gravel, 15,000 cu.yd. spread gravel, etc. G. W. Borden, state highway engr. Noted Apr. 17.

Calif., Burbank—City Trustees taking bids grading and paving 20,000 ft. Pioneer Ave., 6 in. concrete; 1,000 lin.ft. Elmwood Ave., grading, oil macadam, curbs and walks; 1,000 lin.ft., Santa Anita Ave., oil macadam, curbs, gutters and walks; 800 lin.ft. Bonnywood Pl., paving, curbs, gutters and walks.

Calif., Gilroy—City Trustees taking bids improving various streets, Warrenite pavement. To exceed $350,000. C. E. Sloan, Santa Fe Bldg., San Francisco, engr. Noted Jan. 31.

Calif., Glendale—City Trustees taking bids improving Sonora Ave., etc., 274,600 sq.ft. grading, 149,650 sq.ft. oil macadam, 38,370 sq.ft. walks; Raymond Ave., 53,213 sq.ft. grading, 31,876 sq.ft. oil macadam, walks, curbs, etc. B. F. Dupuy, city engr.

Calif., Martinez — May 5, by Supervs. Contr. Costa Co., improving highway 1 mi. east of Clayton, Marsh Creek Route, 6,316 lin.ft. grading, 101,056 sq.ft. asphaltic surface, 1,960 tons rock and screenings, base course, and 975 rock and screenings for top course. R. R. Arnold, co. surv.

Calif., San Francisco—Apr. 30, by Bd. Pub. Wks., improving Palou Ave. between Phelps and Rankin Sts., 5,300 cu.yd. cut, 1,350 cu.yd. fill, 2,700 ft. concrete curb, 2,375 sq.ft. artificial stone walks, 72,900 sq.ft. asphaltic concrete. $30,000. M. M. O'Shaughnessy, city engr. Noted Dec. 13.

Calif., San Jose — May 5, by Supervs. Santa Clara Co., improving Bodfish Mill Rd., 6,400 lin.ft. grading and 6 in. graveling, 20 ft.; portion Sierra, Hanchett, Yosemite Aves., etc., 91,002 sq.ft. 5 in. concrete with expansion joints every 40 ft., or 5 in. asphaltic concrete, 12 ft. center strip (balance of work, 101,000 sq.ft. will be done by property owners under private contract); Fleming Ave. in Superv. Dist. 3, 157,775 sq.ft. oil macadam. R. Chandler, co. surv. Noted Mar. 20.

Calif., Santa Barbara — May 5, by Supervs. Santa Barbara Co., paving 25 mi. Santa Ynez Valley Rd. System, 28 ft., 6 in. rock macadam. O. H. O'Neill, co. surv. Noted Aug. 23.

Calif., Stockton — May 6, by Supervs. San Joaquin Co., improving Thorn and Smithson Rd., 2,900 cu.yd. grading, 4,300 tons road gravel or 3,650 tons rock for base course and 1,460 tons rock for top course, 560 bbl. asphaltic oil, 675 tons dressing for oil. F. E. Quail, co. surv.

BIDS RECEIVED

Maine—State Hy. Comn., Augusta, Apr. 17, paving State Highway B in Bridgton, 44,246 sq.yd. bituminous macadam, from Arborio Road Constr. Co., Inc., 408 Main St., Hartford, Conn., $104,086, engrs. est. $117,299; State Highway B in Raymond, 32,419 sq.yd. bituminous macadam, from A. D. Bridges Sons, Inc., Hazardville, Conn., $78,269, engrs. est. $88,862; State Highway S, in Paris and Woodstock, 7,568 cu.yd. gravel surfacing, 34,003 sq.yd. bituminous macadam, from Ford & Smiley, Skowhegan, $78,790 for gravel and $92,821 for bituminous macadam, engrs. est. $56,354 and $93,289; State Highway N, in Edmunds, 6,792 cu.yd. gravel, from McCabe & Giovannini, Boston, $65,585, engrs. est. $61,890; State Highway K, in Smyrna, 5,178 cu.yd. gravel, State Highway K, in Lincoln, 6,200 cu.yd. gravel, and State Highway K Spur, in Easton, 8,022 cu.yd. gravel, from Boone & Brewer, Presque Isle, $33,294, $50,074, and $50,759 respectively, engrs. ests. $34,771, $52,700 and $62,516 respectively; State Highway D, in Edgecomb, 2,500 cu.yd. gravel surfacing from M. Hughes, 105 3rd St., Bangor, $88,281, engrs. est. $89,507; State Highway V, in New Sharon, 7,070 cu.yd. gravel surfacing, and State Highway V in Hancock and Ellsworth, 7,110 cu.yd. gravel surfacing, from A. P. Wyman, Waterville, $63,659 and $56,317 respectively, engrs. ests. $57,437 and $56,100 respectively. Noted Apr. 3.

New York—A. W. Brandt, comr. highways, Albany, Apr. 18, (e.e. means engrs. est.) constructing and reconstructing 3.2 mi. Repair Contr. 1404, Highway 436, Jericho Turnpike-Plainview, Nassau Co., from Hinkle & Finlayson, Glen Cove, $154,586, e.e. $174,358; 2.02 mi. Highway 9106, Veterans Mountain Camp, 16 ft., St. Lawrence Co., from Hanratty Contg. Co., New York City, $110,780, e.e. $131,619; 3.1 mi. Highway 8173, Randolph-Rutledge Part 1, 16 ft., Cattaraugus Co., from P. N. Carll, 123 Fulton St., Olean, $124,602, e.e. $135,322; 1.64 mi. Repair Contr. 1389, Highway 42, 16 ft., Orange Co., from Hall & Hallenback, Central Valley, $77,236, e.e. $84,955; 1.43 mi. Highway 1679, Delanson-Western Turnpike, 16 ft., Schenectady Co., from S. B. Van Wagenen, Inc., Rondout, $73,875, e.e. $80,905; 9.54 mi. Highway 1685, Thomson-Ft. Edward, 16 ft., Washington Co., from G. D'Angelo, Binghamton, $154,888, e.e. $180,908; 6.32 mi. Highway 8187, Honeye-Vincent, 16 ft., Ontario Co., from Cold Spring Constr. Co., Ellicott Sq., Buffalo, $317,407, e.e. $336,407; 4.18 mi. Repair Constr. 1402, Highway 626, Burrs Mills-South Champlain, 16 ft., Jefferson Co., from J. Thompson, 614 State St., Carthage, $163,651, e.e. $175,726; 4.33 mi. Repair Contr. 1403, Highway 5213, Ithaca-Danby, Part 3, 16 ft., Tompkins Co., from H. W. Patterson, Hornell, $164,430, e.e. $187,968; 4.54 mi. Highway 1690, Aurora-Union Springs, Part 2, 16 ft., Cayuga Co., from Scott Bros., 31 Exchange St., Rochester, $162,773, e.e. $177,580. Noted Apr. 3.

N. Y., Buffalo—Dept. Pub. Wks., Apr. 18, paving and repaving with (a) asphalt (b) brick (1) Andover St. (2) Cable St. (3) Chelsea Pl. (4) Holly St. (5) Taunton Pl., from Rock Asphalt & Constr. Corp., Morgan Bldg., (a1) $23,426 (a2) $18,070 (a4) $20,691; H. P. Burgard Co., Fillmore Ave., (a3) $14,855 (a5) $17,554; B. F. Spire, 24 Colonial Circle, (b2) $19,762; Erie Contg. Co., Morgan Bldg., (b3) $16,450 (b4) $22,795. Noted Apr. 10.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Apr. 14, grading sidewalk space, etc., on Corona Ave., from Peace Bros., Inc., 57 North Laurence St., Flushing, $19,528; recurbing, reflagging and asphalt paving Goodrich and 101st Sts., from Highway Impvt. & Repair Co., $32,425 and $9,060 respectively; grading, curbing, laying sidewalks, etc., on Nicolls St., from R. A. Hess, Inc., 14 Queens St., Astoria, $6,255; grading sidewalk space and laying sidewalks on 101st St., from J. J. O'Brien, Jr., William St., Jamaica, $1,364, H. J. Mullin Contg. Co., Jamaica Ave. and 114th St., Jamaica, $1,364; grading, etc., 137th St., from Tuohey & Upton, Inc., 129 Bway., Flushing, $4,711. Noted Apr. 10.

N. Y., New York — H. Bruckner, pres. Bronx Boro., Apr. 15, curbing, laying sidewalks, etc., on East 132nd St., from J. Meehan & Son, 74 Cortlandt St., $69,082, engrs. est. $32,000; paving Spencer Ave., bituminous concrete, and West 236th St., sheet asphalt, from Asphalt Constr. Co., 208 Bway., $14,445 and $27,951 respectively; curb and sidewalks on Erickson Pl., from P. J. Donovan, 30 Church St., $38,198; grading width 60 ft. in Laconia Ave. from I. F. Cavaluzzo, 1538 Walton Ave., $42,857; grade width 30 ft., etc., in West 232nd St., from Fordham Contg. Co., $29,975; setting curb and laying sidewalks, etc., in Gleason Ave., from Spedero & Turiana, 3185 East Tremont Ave., $3,836. Noted Apr. 10.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Apr. 16, regrading, curbing and flagging Seaman Ave., etc., from I. F. Cavaluzzo, 1538 Walton Ave., $103,590; granite block repaving West Bway., from J. Meehan & Son, 74 Cortlandt St., $110,395; curbing, recurbing, flagging, reflagging and asphalt paving West 174th and 175th Sts., from Asphalt Constr. Co., 208 Bway., $9,883 and $8,880. Noted Apr. 10.

N. Y., New York—Park Bd., Municipal Bldg., Apr. 17, repaving roadway Spuyten Duyvil Parkway, from J. E. Gaffney, 428 East 91st St., $152,481. Noted Apr. 10.

New Jersey—State Hy. Dept., Trenton, Apr. 21, improving Route 10, Sect. 1A, Arcadian Way to Fort Lee Ferry, Bergen Co., 18,400 sq.yd. rein.-con., 8,620 lin.ft. granite curb, from J. J. McGarry, Edgewater, $138,867; Route 12, Sect 6, Port Colden to Stephensberg, Warren Co., 23,788 cu.yd. earth excav., 64,810 sq.yd. rein.-con., from Korp & Korp, Phillipsburg, $384,694; Route 12, Sect. 7, Stephensberg to Hackettstown, Warren Co., 50,302 sq.yd. rein.-con., 4 small span bridges, from Public Service Production Co., 80 Park St., Newark, $288,178. Noted Apr. 3.

N. J., Newark—T. L. Raymond, dir. Pub. Wks., City Hall, Apr. 17, from J. B. Gilligan-Casey Co., 919 Broad St., sheet asphalt paving on 6 in. concrete Keer Ave. $12,202, North 7th St. $9,968, West End Ave. $39,023, Park View Terrace $22,095, North 11th St. $10,461, Grove Terrace $18,493, rein.-con. paving Prospect Row $1,955; from Standard Bitulithic Co., 50 Church St., New York City, sheet asphalt paving on 6 in. concrete, Montrose St. $10,741, Dover St. $4,878, Eastern Parkway $10,972, Valley Rd. $2,170, Cameron Rd. $5,951, sheet asphalt resurfacing Heller Parkway west $5,230, Heller Parkway east $10,702; from City of Newark Plant, sheet asphalt resurfacing South 11th St. $8,579, Fabyan Pl. $10,359. Noted Apr. 10.

Ohio—Dept. Highways and Pub. Wks., Columbus, Apr. 11, grading bridging and paving 3.056 mi. Sect. "A-2" Bellefontaine-Wapakoneta Rd., Auglaize Co., waterbound macadam, from Davis-Davenport Co., Spencerville, $16,547; 2.38 mi. Sect. "Nashville" Mansfield-Millerburg Rd., Holmes Co., plain and rein.-con., from Davis & Davenport, Spencerville, $46,759; 1.678 mi. Sect. "L-2" Mansfield-Millersburg Rd., Holmes Co., plain concrete, from Rice & Rice, Shelby, $30,105; 2.9 mi. Sect. "B-2" Newark-Mt. Vernon Rd., Knox Co., brick, from J. T. Irwin, Sunbury, $97,808; 6.549 mi. Sects. "C and D" Euclid-Chardon Rd., Lake Co., bituminous macadam, asphalt, from Neff & Rader, Circleville, $214,744; tar macadam, from Mahoning Contg. Co., Warren, $220,206; rein.-con., from Ohio Contg. Co., Newman Stern Bldg., Cleveland, $226,981; 1.55 mi. Sect. "G" Bucyrus-Tiffin Rd., Senaca Co., bituminous macadam asphalt, from W. H. and H. A. Souder, Fostoria, $36,961, tar macadam, also concrete from Seneca Constr. Co., Kansas, $37,543 and $47,574 respectively; 3.05 mi. Sect. "K" Tiffin-Bellevue Rd., Seneca Co., bituminous macadam asphalt, tar macadam, and concrete from Seneca Constr. Co., Kansas, $57,815, $58,252 and $63,655 respectively, Kentucky rock asphalt, from Forrest Constr. Co., Forrest, $74,473. Noted Apr. 3.

Michigan — State Hy. Dept., Lansing, shaping and surfacing 6.71 mi. State Trunk Line Rd. 43-7, Kalamazoo Co., 4,700 sq.yd. gravel, 70,858 sq.yd. bituminous wearing surface course, from Globe Constr. Co., Kalamazoo, $112,676; 3.187 mi. State Trunk Line Rd. 17-14, Van Buren Co., 37,400 sq. yd. asphalt, concrete or bituminous concrete, from Kalamazoo Paving Co., Kalamazoo, $81,440; 13.853 mi. Federal Aid Project 113, Sect. C, Kent Co., 162,545 sq. yd. asphalt, concrete or bituminous concrete, from G. P. Schail, Muskegon, $267,595; 0.747 mi. State Trunk Line Rd. 11-64, Berrien Co., 8,764 sq.yd. asphalt, concrete, or bituminous concrete and 1.25 mi. State Trunk Line Rd. 11-22 B. Berrien Co., from Woodley & Granger Constr. Co., 24 Tranchion Bldg., Benton Harbor, $23,397 and $36,445 respectively; 0.999 mi. State Trunk Line Rd. 47-5, Shiawassee Co., 11,733 sq.yd. concrete, and State Trunk Line Rd. 47-5, Shiawassee Co., 11,625 sq.yd. asphalt, concrete or bituminous concrete from Taylor Constr. Co., Birmingham, $21,263 and $29,809 respectively.

Wis., Janesville—Paving, etc., various streets, 163,850 sq.yd. concrete, 13,180 lin. ft. concrete curb and gutter, 52,000 cu.yd. earth, from R. Birdsall Constr. Co., 1025 12th St., Racine, $378,000. Noted Apr. 10.

N. D., Fargo—Paving, curbing, etc. (1) 8,500 sq.yd. Dist. 7 (2) 14,000 sq.yd. Dist. 8, from W. E. Kennedy, Fargo, rock concrete (1) $21,834 (2) $34,800, 3 in. brick (1) $27,744 (2) $48,849, bituminous concrete, oil (2) $38.092; from Butler & O'Connor, Hamm Bldg., St. Paul, Minn., vibrolithic concrete (1) $23,350 (2) $37,108; from S. Birch & Son, Great Falls, Mont., bituminous concrete, oil (1) $23,756 bituminous concrete, lake (1) $24,312 (2) $39,163. bitulithic, oil (1) $24,514 (2) $39,529, bitulithic, lake (1) $25,070 (2) $40,535, Warrenite bitulithic, lake (1) $25,070 (2) $40,535.

Streets and Roads (Continued)

Tex., Kerrville—Kerr Co., grading, surfacing with gravel and crushed stone 5.83 mi. State Highway 27, Federal Aid Project 405, 18 ft. base, 16 ft. top, from W. T. Montgomery, Alamo Bank Bldg., San Antonio, $55,526. Engrs. est. $65,632. Noted Mar. 27.

Colorado — State Hy. Dept., Denver, grading 1.0575 mi. Federal Aid Project 254-A, Grand Co., from Pioneer Constr. & Eng. Corp., Denham Bldg., Denver, $72,-409, engrs. est. $90,891; concrete paving 0.892 mi. Federal Aid 116-B, El Paso Co., from J. L. Bussell, 1501 North Tejon St., Colorado Springs, $51,001, engrs. est. $75,-573. Noted Apr. 17.

Colo., Denver — Asphalt paving, from Allied Contractors Inc., 803 Douglas St., Omaha, Neb., 12 blocks in East Denver Paving Dist. 14, $47.208, 12 blocks East Denver Paving Dist. 12, $33,114, 12 blocks South Capitol Hill Paving Dist. 1, $39,335, 12 blocks Capitol Hill Paving Dist. 8, $42,-709, 12 blocks Capitol Hill Paving Dist. 7, $36,832; from New Mexico Constr. Co., Albuquerque, N. M., 12 blocks East Denver Paving Dist. 13, $35,589, 12 blocks West 33rd Ave. Paving Dist. 1, $36,853; from Western Paving & Constr. Co., International Trust Bldg., 12 blocks Capitol Hill Paving Dist. 10, $42,043, 12 blocks Capitol Hill Paving Dist. 4, $38,886; from J. Collier, 63 South Logan St., curbing, grading and surfacing in West Denver Impvt. Dist. 3, ¼ mi. wide, ½ mi. long, $33,097. Noted Apr. 10.

Washington—State Hy. Comn., Olympia, Apr. 8, grading 2.4 mi. State Rd. 1, High Line Rd. from Tacoma east, Pierce Co., from Tacoma Dredging Co., 113½ A St., Tacoma, $102,687.

Washington—State Hy. Comn., Olympia, grading and surfacing with crushed gravel, 3.4 mi. State Rd. 5, from Ajiune to Riffe, Lewis Co., to A. W. Lawler, Puyallup, $106,874, 2.11 mi. State Rd. 9 from Uncas to Port Townsend, Jefferson Co., to Beseloff & Brice, Thompson Bldg., Seattle, $55,-474, 7.6 mi. State Rd. 22, from Harvey to Gifford, Stevens Co., to Morrison & Knudsen, Railroad and Reclamation Aves., Boise, Idaho, $43,415; paving 4.2 mi. Anacortes Highway from Anacortes east, Skagit Co., to Norris Bros., Bellingham, $116,817. Noted Mar. 27.

Wash., Aberdeen—City Council, Apr. 10, paving Arnold St. from 3rd to 2nd Aves., from F. A. Keasel, 1004 North Cushman St., Tacoma, asphaltic concrete $26,633; Greene Eng. Co., Aberdeen, vitrolithic $29,-623. Engrs. est. $2,600.

Wash., Kelso—City Council, Apr. 8, 5,000 cu.yd. grading, 12,300 lin.ft. curbing and 26,700 sq.yd. paving in L. I. D. 5, West Kelso, from R. L. Roland & Co., Seattle, 7-in. concrete, $101,102; Yakima Paving Co., 2-in. asphaltic concrete on 3-in. bituminous, $90,771; United Contg. Co., Northwest Bank Bldg., Portland, Ore., 2-in. warrenite bituminous on 3-in. bituminous, $86,531, and 2-in. warrenite bituminous on 4-in. crushed rock, $81,728.

Wash., Port Angeles — Comrs. Clallam Co., grading 8.6 mi. Shadow-Twin Rd., from Dahlberg & Bourn, Port Angeles, $98,000.

Calif., Los Angeles—Improving 12th St. between Gaffney and Meyler Sts., to Griffith Co., Railway Bldg., grading $2,131, asphalt $0.24, concrete $0.24, bituminous base $0.12, curb $0.70, walks $0.21, gutters $0.25, sanitary sewers $4,000, total $25,000; 74th St. between San Pedro and Main Sts., to W. Liddington, 420 East 60th St., grading $4,257, concrete $0.228, Warrenite-bitulithic $0.29, curb $0.65, walks $0.195, gutters $0.30, total $44,000; Irolo St. between Wilshire Blvd. and San Marino St., to Warren Constr. Co., 5444 Hollywood Blvd., grading $5,800, Warrenite-bitulithic $0.259, curb $0.80, walks $0.23, gutters $0.31, bituminous base $0.12, total $34,385. Noted Apr. 10.

Calif., Los Angeles — Los Angeles Co., paving 2.8 mi. highway between Pasadena and Montebello Ave., concrete on asphaltic concrete, from W. Johnson & Sons, Whittier, $182,214; portion Whittier Blvd., 22,-411 cu.yd. excav., 90,048 sq.ft. gutters, 37,-136 sq.yd. asphaltic concrete, from G. H. Oswald, 366 East 58th St., $188,550. Noted Apr. 3.

Calif., San Diego—Improving Girard Ave. and Coast Blvd., from D. H. Ryan, 1615 Fern St., 118,601 sq.ft. paving 5 in. cement concrete $0.245. Noted Mar. 20.

Calif., Santa Monica—Improving Pennsylvania Ave., 362,382 sq.ft. grading for oil and rock pavement, 32,240 sq.ft. grading for bitulithic, 107,379 sq.ft. subgrading for oil and rock, 53,690 sq.ft. subgrading for bitulithic, curbs, walks, etc., from Keen Paving Co., Dudley Bldg., $66,375.

CONTRACTS AWARDED

N. Y., Buffalo—Erie Co., City Hall, paving Ebenezer-East Seneca Rd., concrete, also Waverly St., concrete and waterbound, to Stabell, Mumn & Beals, 1127 Niagara St., $163,000 and $60,000 respectively; Amsdell and Town Line Rds., concrete and waterbound, to Holmes & Murphy, Orchard Park, $83,000. Noted Mar. 27 and Apr. 3.

N. Y., Gloversville—Paving East State St. and 2nd Ave., 30 ft., rein.-con. with bituminous top, to Morrell Vrooman, Inc., Gloversville, $32,762 and $30,098 respectively. Noted Mar. 20.

N. Y., Johnstown—Fulton Co. will construct approximately 20 mi. new macadam highways, by day labor, under supervision of H. S. Gage, co. supt. highways.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., grading, regrading, curbing, etc., Bway., to Garafano Contg. Co., $54,387; grading, curbing, laying sidewalks and crosswalks, on Tryon Ave., to Interstate Contg. Co., $11,187; sheet asphalt paving boro line of Bronx, to C. D. Beckwith, Inc., 2875 Bway., $159,720; paving West 188th St. and Walton Ave., both sheet asphalt, also Bailey Ave., bituminous concrete, to Brusstar Constr. Co., Harlem River and 150th St., $4.654, $32,303 and $52,481 respectively; grading, curbing, laying sidewalks, etc., on Worthen St., to Clementi Contg. Co., 1195 Spoffard St., $15,490. Noted Apr. 17.

N. Y., Tonawanda—R. K. Fuller, comr. Canals & Waterways, Albany, removing old superstructure, making fill and roadway across old Erie Canal bed and rebuilding approaches at Bouck St., here, to F. M. O'Neill, 207 Woodward Ave., Buffalo, $7,920. Noted Mar. 20.

New Jersey—State Hy. Dept., Trenton, concrete paving 29,505 sq.yd. Route 9, Sect. 12, Plainfield to Westfield, Union Co., to P. Camillo & Co., 335 Spring St., Westfield, $122,945; 67,905 sq.yd. Route 6, Sect. 14, Bridgeton to Marlboro, Cumberland Co., to Acchione & Canuso Paving Co., 804 South 12th St., Phila., $255,283. Noted Apr. 17.

N. J., Woodbury—Gloucester Co. concrete paving Sect. 2, Woodbury-Blackwood Rd., to M. Staub, Main St., Pitman, $129,-456. Noted Mar. 27.

Pennsylvania—State Hy. Dept., Harrisburg, rein.-con. highways, **(R. means Route and A. means Application)**, 6,420 sq.yd. R. 1, Dauphin Co., to Continental Contg. Co., Knickerbocker Bldg., Baltimore, Md., $46,-533; 27,668 sq.yd. R. 214, and A. 2758 Butler Co., to A. R. Cooper, Idamar, $142,-067; 34,033 sq.yd. R. 88, Warren Co., to J. C. Devine Co., Alliance, O., $176,166; 52,969 sq.yd. R. 146, Montgomery Co., to McNichol Paving & Constr. Co., 1923 Cherry St., Phila., $197,298; 13,870 sq.yd. R. 272, Erie Co., to McDermott Constr. Co., 14 Butler St., Niles, O., $78,545; 44,238 sq. yd. R. 141, Berks Co., to D. L. Risser, 713 Walnut St., Lebanon, $200,584; 24,600 sq. yd. R. 68, Sect. 4, Westmoreland Co., to J. C. Mickey, 1601 Ligonier St., Latrobe, $116,779; 69,000 sq.yd. R. 325, Sect. 1, Washington Co., to Donora Constr. Co., Donora, $402,259; 49,748 sq.yd. R. 65, Venango Co., to Woods & Golder Constr. Co., 212 Mechanic St., New Castle, $230,-832; 20,800 sq.yd. R. 211, McKean Co., to E. C. Jones, Great Valley, N. Y., $118.243; R. 170, Luzerne Co., to M. J. Malloy, Main St., Sugar Notch, $40,608; 8,438 sq.yd. R. 86, Erie Co., to C. M. Spillar, 329 West 21st St., Erie, $36.893; 38,678 sq.yd. R. 338, Clearfield and Jefferson Counties, to Avery & Bailey, Philipsburg, $193,040; 49,022 sq. yd. R. 189, Sect. 1, Armstrong Co., to L. H. Hileman Constr. Co., 1st Natl. Bank Bldg., New Kensington, $282,825. Noted Apr. 10.

Pa., New Castle—Improving Pennsylvania Ave. between Long and Lyndal Aves., vitr. paving blocks, rein.-con. curb, to Burns Bros., New Castle, $26,181.

Md., Baltimore — Bd. Awards, paving roads, Contr. 251-OA, 11,400 sq.yd. asphalt to Baltimore Asphalt Block & Tile Co., 1320 Monroe St., $45,184; Contr. 253-OANA, 12,625 sq.yd. concrete, to Aiello Constr. Co., Gough and 4th Sts., $32,006. Noted Apr. 17.

W. Va., Charleston—Surfacing with Trinidad lake asphalt, 7th and Park Aves. and 4 other streets, to Andrews Asphalt Paving Co., Charleston Natl. Bank Bldg., $53,445; concrete surfacing Summit Dr., Clay, Oak and Walnut Aves., to Ebersbach Constr. Co., Huntington, $30,548.

W. Va., Charleston—Kanawha Co. grading and concrete paving 1 mi. Martins Branch Rd., 18 ft., to Greybill & Bruce, Charleston, $44,672. Noted Mar. 27.

W. Va., Fairmont—Grading and bituminous macadam surfacing 2.5 mi. Morgantown Pike, to W. R. Bainbridge, Fairmont, $58,040. Noted Apr. 17.

W. Va., Huntington—Paving with brick and concrete 0.5 mi. 4th Alley, College Ave. and 24½ St., 14 ft., to J. A. Griffith, 1561 Washington Ave., $13,974; with brick 0.5 mi. 5th, 6th and Poague Sts., 18 ft., to L. J. Gillespie, 1751 5th Ave., 18,868, 1 mi. Marshall, 26th, Chase, 37th, Vernon, Court, Vinson and Wayne Sts., 22 ft., to Harrison & Dean, Old Walton Bldg., $35,-696; with Trinidad lake asphalt on concrete 0.5 mi. Washington Blvd., Woodland and High Drives, 40 ft., to Andrews Asphalt Paving Co., Huntington, O., $49,520; with 3½ in. brick on concrete 0.5 mi. Burlington Rd., 18 ft., to J. Ullom, Huntington, $15,488. Noted Mar. 20 and Apr. 3.

W. Va., Huntington—Paving with 3½ in. brick on concrete 0.5 mi. Burlington Rd., 18 ft., to J. Ullon, Huntington, $15,488. Noted Mar. 20.

W. Va., Philippi—Barbour Co., grading and concrete paving Bonica Rd., to Monongahela Constr. Co., Fairmont, $31,549. Noted Mar. 27.

Ga., Columbus — Paving 11,500 sq.yd. Talbot St., one course concrete, to Barlow-Gordy Co., Columbus, $26,000. Noted Mar. 27.

Fla., Milton—Santa Rosa Co. improving or constructing 16.616 mi. Milton-Camp Walton Rd., to Collins & Hicks, Milton, 21.8 acres clearing, etc. $70, 17,553 cu.yd. excav. $0.35, 7,000 cu.yd. clay pit stripping $0.30, 6,235 cu.yd. sand clay 0 to 1 mi. $0.75, 3,546 cu.yd. sand clay 1 to 2 mi. $1.05, 1,859 cu.yd. sand clay 2 to 3 mi. $1.35, 1,636 cu.yd. sand clay 3 to 4 mi. $1.65, 11.348 mi. road machine grading $260, etc., total $28,424. Noted Mar. 20.

Alabama—State Hy. Dept., Montgomery, grading and cherting 1 mi. highway extending through Lafayette, 20 ft., to Town of Lafayette, $43,366.

Ala., Alabama City—Paving, curbing and guttering 4th St., asphaltic concrete on concrete, to Lasley Bros., Chattanooga, Tenn., $25,500.

Louisiana—State Hy. Dept., Reymond Bldg., Baton Rouge, grading, and hard surfacing 7.92 mi. State Project 393-D, Colfax-Pollock Highway, 18 ft., to McKiether Constr. Co., Baton Rouge. Bids on Project 337-C rejected. Noted Apr. 3.

Ohio—Dept. Highways & Pub. Wks., Columbus, grading, bridging and paving 2.555 mi. Sect. "A" New Athens-Morristown Rd., Harrison Co., bituminous macadam, tar, to H. R. Brown, Rayland, $40.733, 1.999 mi. Sect. "A-2" Versailles-Sidney Rd., Shelby Co., brick, to J. Franz, Sidney, $76,545; concrete bridge and approaches on Sect. "K-1" Marion-Caldwell Rd., Washington Co., to A. K. McCall, Columbus, $22,576. Noted Apr. 3.

Ohio—Dept. Highways & Pub. Wks., Columbus, grading, bridging and paving 1.536 mi Sect. "A-2" Fremont-Port Clinton Rd., Sandusky Co., rein.-con., to Modern Constr. Co., Fremont, $44,848; 3.43 mi. Sect. "J" Akron-Wooster Rd., Wayne Co., brick, to Holmes Constr. Co., Wooster, $146,-227; 3.553 mi. Sect. "L" Athens-New Lexington Rd., Athens Co., brick, to F. H. Beckler, Athens, $146,841; 3.091 mi. Sect. "D" Mt. Vernon-Coshocton Rd., Coshocton Co., gravel, to Stein, Geisel & Stein, Niles, $43,942; 2.548 mi. and 3.14 mi. (extra width) Sect. "D" Waterville-Swanton Rd., Fulton Co., rein.-con., to G. L. La Boiteaux, Toledo, $15,032 and $3,722 respectively; Sect. "C" Swanton-Metamora Rd., Fulton Co., rein.-con., to J. A. Elder, Bryan, $59,449; 2.555 mi. Sect. "M" Columbus-Cincinnati Rd., Greene Co., waterbound macadam surface treated, to N. B. Putnam, Van Wert, $39,643; 0.902 mi. Sect. "A" Skelley-Empire Rd., Jefferson Co., bituminous macadam, tar, to H. F. Daugherty, Steubenville, $13,012; 3.44 mi. Sect. "K" Savannah-Vermillion Rd., Erie Co., waterbound macadam and brick, sandstone and waterbound base, to Ohio Road Building Co., Amherst, $101,920; 1.112 mi. Sect. "A" and 0.606 mi. Sect. "B" Ceylon-Norwalk Rd., Erie Co., asphaltic macadam, to Anstine & Carey, Kenton, $23,885 and $15,270 respectively; widening 1.72 mi. Sects. "D and N" Milan-Elyria Rd., Erie Co., plain concrete, to C. Wilmore, Middletown, $26,846. Noted Apr. 3.

O., Akron—Asphalt paving Chalker St., to T. E. McShaffrey, 171 South Forge St., $30,027. Engrs. est. $32,000.

O., Bexley (Columbus P. O.) — S. W. Roderich, village clk., to A. G. Pugh, 401 Commerce Bldg., Columbus, sheet asphalt paving 2,600 ft. Ardmore Rd., 24 ft., $42,-126, 2,600 ft. Cassingham Rd., 24 ft., $42,-223, 500 ft. Elm Ave., 24 ft., $7,111, 3,300 ft. Roosevelt Ave., 24 ft., $47,679. Noted Mar. 27.

O., Cleveland—Grading, curbing and paving 5,760 sq.yd. East 130th St., vitr. brick to Baldwin Bros., 4500 Euclid Ave., $32,308, 22,740 sq.yd. East 135th, East 137th, East

Streets and Roads (Continued)

139th and East 169th Sts., asphalt, to Highway Constr., 903 Lorain Co. Bank Bldg., Elyria, $127,947; vitr. brick paving Camden Ave., to Roehl Bros., Lorain Ave., $16,796, East 169th St., to H. G. Herring, Pavers Exch., $31,204, East 126th St., to Rieley Bros., The Arcade, $17,594, Sandusky Ave., to W. E. McHugh, Pavers Exch., $9,146; concrete sidewalks on Milverton Rd., to A. M. Pejsa, 3161 Derbyshire Rd., Cleveland Heights, $4,836. Noted Apr. 17.

O., Columbus—W. H. Duffy, dir. Pub. Serv., widening 1,661 ft. Spring St., 3 ft. on either side and repaving with asphalt, to A. W. Burns & Co., Columbus, $38,126. Noted Apr. 3.

O., Euclid — Grading, etc., South Lake Blvd., Shirley Rd., East 270th, East 228th and East 211th Sts., to F. B. Stein, Euclid, $31,403; Edgecliff Dr., East 196th, East 197th, East 199th and East 200th Sts., to E. Gedney, Ansel Rd., $20,144. Work involves 40,000 cu.yd. earth excav., 235,000 sq.ft. cement sidewalks. Noted Mar. 13.

Ind., Terre Haute—Vigo Co., paving J. E. Milks Rd., to J. L. Weeks, Farmersburg, $38,699. Engrs. est. $50,231. Noted Apr. 17.

Michigan — State Hy. Dept., Lansing, grading and surfacing 4.663 mi. State Trunk Line Rd. 19-4, Sects. B, C and D, St. Clair Co., 49,380 sq.yd. asphalt, concrete or bituminous concrete to C. W. Whitely, Marlette, $112,958; 1.87 mi. State Trunk Line Rd. 27-17, Sects. A, 4, 5 and 6, St. Clair Co., 22,135 sq.yd. asphalt, concrete or bituminous concrete, to J. Porath, 903 Free Press Bldg., Detroit, $40,539. Noted Apr. 17.

Michigan — State Hy. Dept., Lansing, shaping and surfacing 2.123 mi. State Trunk Line Rd. 27-4, B, St. Clair Co. and 2.731 mi. State Trunk Line Rd. 27-15, A, St. Clair Co., to J. H. Baker & Son, Port Huron, $41,670 and $55,279 respectively.

Michigan—State Hy. Dept., at dist. office St. Joseph, grading and surfacing 0.747 mi. State Trunk Line Rd. 11-64, Berrien Co., and 1.25 mi. State Trunk Line Rd. 11-22, B, Berrien Co., to Woodley & Granger Constr. Co., Benton Harbor, $23,680 and $26,598 respectively. Noted Mar. 20.

Michigan — State Hy. Dept. at office Comrs. Allegan Co., Allegan, 2.3 mi. North Otsego Rd., 1.025 mi. River Rd. and 2.988 mi. Todd Rd., to W. McCann, Allegan, $40,713.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, **(3-35A, Warren, means State Route 3, Sect. 35A, Warren Co.)**, to Cameron, Joyce & Co., Keokuk, Ia., grading 3-35A, Warren, 5-28A and 5-29A Jo Daviess, $29,260, 5-30A and 5-31A, Jo Daviess, $363,750, 9-41A, Fulton, $18,454, 41-12A, Fulton and 41-13A, Fulton and Knox, $85,681, paving 9-44, Fulton and Peoria, $140,018, 3-29, 3-32 and 3-34, Warren, $224,922; grading as follows: to Byers-Wilson Constr. Co., Des Moines, Ia., grading 9-25A, Hancock, $139,930; to Jenner Bros., Davenport, 9-37A, Fulton and McDonough, $18,996; to Tritt Bros., Belleville, 13-22A, Randolph and St. Clair, $23,513; to A. O. McCoy, Rushville, 36-10A, Adams, $32,044; to McAndrew & Hannahs, Keokuk, Ia., 9-24C, Hancock and McDonough, $37,967; to L. Gallagher & Son, Lincoln, 2-54A, Dewitt, $11,995; t› A. F. Hartigan, 5614 Dorchester Ave., Chicago, 16-4A and 16-5A, Coles, $57,703; to Trompeter & Sons, Peru, 43A-1A, Menard, $38,711; paving as follows: to List & Gifford Constr. Co., 415 Railway Exch., Kansas City, Mo., 31-9, Brown, $85,319, 3-44, Schuyler, $12,619; to H. H. Hall Constr. Co., East St. Louis, 13-23, St. Clair, $161,389; to List & Weatherly Constr. Co., 416 Railway Exch., Kansas City, Mo., 36-9, Adams, $119,344; to Keeley Bros. Contg. Co., East St. Louis, 3-67, Monroe, $34,438; to H. A. Carpenter, Terre Haute, Ind., 13-9, Saline, and 13-10, Gallatin, $287,857; to J. J. Dunnegan Constr. Co., Shenandoah, Ia., 26-7, Ogle and Lee, $205,145. Noted Mar. 13 and 27, and Apr. 10.

Wisconsin—State Hy. Comn., Madison, grading and paving Sect. A Portage-Kilbourn Rd., Columbia Co., Project 360, to J. Gunnison & Sons, North Livingston and East Gorham Sts., Madison, 28,422 cu.yd. earth excav. $0.43, 10,793 cu.yd. gravel $1.05, etc., total $46,400, bids on Sects. B and C of above were rejected, will be readvertised; Sects. A and B, Watertown-Waupun Rd., Dodge Co., to J. P. Connell, Janesville, 49,111 cu.yd. earth excav. $0.68, 95,847 sq.yd. concrete $1.20, 44,475 sq.yd. concrete $1.26, etc., total $231,033.

Wisconsin—State Hy. Comn., Madison, grading and surfacing Snyderville Rd., Project 342, Outagamie Co., to Koepke Bros., Appleton, $53,263. Noted Apr. 17.

Wis., Fond du Lac—Fond du Lac Co. Hy. Com., concrete surfacing Sects. A and B, Ladoga-Brandon-Ripon Rd., to A. Kramp, Berlin, $83,837 and $90,322 respectively. Noted Apr. 17.

Wis., Juneau — Dodge Co. grading and surfacing, etc., to Universal Eng. Co., Medford, Juneau-Theresa Rd., 6,270 cu.yd. earth excav. $0.90, 29,125 sq.yd. concrete $1.29, etc., total $49,259, Lowell-Reeseville Rd., 12,500 cu.yd. earth excav. $80, 32,998 sq.yd. concrete $1.22, etc., total $59,623; to L. Young, Clyman, Hustisford-Horicon Rd., 23,000 cu.yd. earth excav. $0.52, 9,340 cu.yd. gravel $1.80, etc., total $33,909, Alderly-Washington Co. line Rd., 12,366 cu.yd. earth excav. $0.60, 4,212 cu.yd. gravel $1.85, etc., total $19,779, Reeseville-Hubbleton Rd., 11,679 cu.yd. earth excav. $0.60, 3,985 cu.yd. gravel $1.75, etc., total $16,730; to Colburn & Thurston, Anoka, Minn., Lowell-Beaver Dam Rd., 31,729 cu.yd. earth excav. $0.59, 14,103 cu.yd. gravel $2.13, etc., total $61,091; to Lind & Lindeman, Clyman, Clyman-Hustisford Rd., 5,963 cu.yd. earth excav. $0.50, 3,551 cu.yd. gravel $1.65, etc., total $9,788, Lomira-Campbellsport Rd., 3,931 cu.yd. earth $0.65, 1,608 cu.yd. gravel $2.25, etc., total $9,075, Huilsburg-Theresa Rd., 10,922 cu.yd. earth $0.50, 6,749 cu.yd. gravel $1.95, etc., total $22,691. Noted Apr. 3.

Wis., La Crosse—Bd. Pub. Wks., to T. E. Wooley, 148 West Ave., S., brick paving, etc., 22,092 sq.yd. 14th, 15th, 20th, Rose, Ferry and St. Andrew Sts. and alley, $3.27 per sq.yd., Main, State and Pearl Sts., $7,427; to E. H. Derr, 1508 Main St., 82,342 cu.yd. excav., $33,865.

Wis., Niagara — Concrete paving, etc. various streets, to C. Johnson, City Natl. Bank Bldg., Oshkosh, $70,000.

Wis., West Allis—Paving various streets, one course concrete and some vibrolithic, to R. Reisinger & Co., 464 Oakland Ave., Milwaukee, $118,000. Noted Mar. 27.

Wis., Wisconsin Rapids—Concrete paving, etc., 8th St., to Bossert Coal Co., Wisconsin Rapids. Noted Feb. 21.

Wis., Wisconsin Rapids—Wood Co. Hy. Com., grading and surfacing, etc., Marshfield-Lincoln Rd., in towns Lincoln and Marshfield, to A. Larson & Co., Eau Claire, 4141 cu.yd. earth excav. $0.88, 16,244 sq.yd. concrete $1.52, etc., total $30,857.

Ia., Oelwein—Improving various streets, 61,000 sq.yd. paving, 36,800 lin.ft. combined curb and gutter and 2,780 lin.ft. curb, to F. Carlson Paving Co., Decorah; 1,360 lin.ft. 10- to 42-in. storm sewer, to Bryant Asphalt Paving Co., 807 Black Hawk Bank Bldg., Waterloo. Noted Mar. 27.

Minn., Breckenridge—Wilkin Co., grading 4.5 mi. Job 2401, State Rd. 3, 27,132 cu.yd. excav., etc., to F. A. Matheson, Fairmont, N. D.; 7 mi. Job 2402, State Rd. 6, 53,454 cu.yd. excav., to Hanson & Carlson, Wolverton; culverts on Jobs 2401 and 2402, to Wheeling Corrugating Co., 155 26th Ave. S. E., Minneapolis. Engrs. est. $25,000. Noted Mar. 27.

Minn., Buffalo—Wright Co., 5.4 mi. Job 2401, State Rd. 1, 60,803 cu.yd. earth excav., etc., 4.3 mi. Job 2402, State Rd. 2, 26,334 cu.yd. earth excav., etc., and 2.19 mi. Job 2403, State Rd. 1, 19,896 cu.yd. earth excav., etc., to Thomas Bros., Foley, $32,818. Noted Apr. 3.

Minn, Fairmont — Martin Co., grading Job 2401, State Rd. 5, 56,000 cu.yd. excav., Job 2402, State Rd. 4, 53,000 cu.yd. excav., and Job 2404, State Rd. 10, 37,000 cu.yd. excav., to W. H. Duffy, Fairmont, $44,291

Minn., Mankato — Blue Earth Co., Job 2401, State Rd. 16, 41,217 cu.yd. excav., 59,550 cu.yd. overhaul, etc., and Job 2403, State Rd. 18, 19,258 cu.yd. excav., 24,710 cu.yd. overhaul, etc., to Bacon & Daufeneack, Mankata, $11,268 and $5,851 respectively; Job 2402, State Rd. 20, 31,749 cu.yd. excav., 31,900 cu.yd. overhaul, etc., to O. Winston & Sons, St. James, $9,698; Job 2404, State Rd. 21, 43,822 cu.yd. excav., 127,560 cu.yd. overhaul, etc., to A. Hanson & Sons, Lake Crystal, $14,119. Noted Mar. 20.

Kan., Atchinson—Grading and surfacing 15.154 mi. Federal Aid Project 83, Sects. A and B, Atchinson Co., to Harrison Eng. & Constr. Co., 506 Mutual Bldg., Kansas City, Mo., $412,474. Noted Mar. 20.

Kan., Iola — Grading, surfacing and bridging 2.036 mi. Federal Aid Project 168, 18 ft., to Fry Bros., Iola, $103,431. Noted Apr. 17.

South Dakota—State Hy. Comn., Pierre, grading **(F. A. P. means Federal Aid Project)**, 3.77 mi. F. A. P. 146 B, and 108 B, Corson Co., to H. Pickus Constr. Co., 309 Mass Bldg., Sioux City, Ia., $21,053; 15.59 mi. F. A. P. 95 A, Faulk Co., to Dowd Bros. & Schreiber, Watertown, $43,555; 28 mi. F. A. P. 165 B, Lyman Co. and 6.92 mi. F. A. P. 178 A, Bon Homme Co., to Diamond Eng. Co., Grand Island, Neb., $55,344 and $20,172 respectively; [illegible] mi. F. A. P. 127, Hughes and Sully Counties, to Stanley Bros., St. Cloud, Minn., $21,282; 10.92 mi. F. A. P. 145, Beadle Co., to H. J. Parrett, Mitchell, $27,704; 0.28 mi. F. A. P. 118 B, Lyman Co., to R. P. England, Murdo, $2,407; 0.21 mi. State Aid 84, Butte Co., to R. Ginter, Strool, $2,124.

S. D., Yankton—Yankton Co. grading 15 mi. Co. Highway 19 and 8-9, to W. H. Culver, Yankton, $24,495, concrete bridge to W. H. Pierce, Vermilion, $16,223.

N. D., Rolla—Rolette Co., grading 8.67 mi. Federal Aid Project 196, 64,730 cu.yd. earth and 1,280 cu.yd. rock excav., to E. M. Nelso, Bottineau, $21,167; 7 mi. Federal Aid Project 238, 56,138 cu.yd. earth and 1,105 cu.yd. rock excav., to E. M. Lilleby, Dunseith, $25,590.

Missouri—State Hy. Dept., Jefferson City, grading 4.962 mi. and 4.339 mi. Kansas City-St. Louis Rd., 34 ft., Boone Co., to Short Bramer & Cox, Monett, $38,652 and $39,801 respectively. Noted Mar. 6.

Missouri — State Hy. Dept., Jefferson City, grading road from Anderson south, McDonald Co., to V. C. Cossota, Oklahoma City, Okla., $62,057, 2.165 mi. road from Mansfield east, and 3.051 mi. road from Mansfield west, 26 ft., Wright Co., to Summerfield-Jones, Billings, $19,524 and $18,412 respectively; concrete paving 4.89 mi. and 5 mi. road from Maryville south, 18 ft., also grading 4.89 mi. and 5 mi. road from Maryville south, Nodaway Co., to C. H. Atkinson Paving Co., Watertown, S. D., $78,493, $81,308, $34,339 and $31,942 respectively; grading 3.579 mi. road from Grant City north and south, 30 ft., Worth Co., to M. Haase, Trenton, $24,463, 2.335 mi. road from Anderson south, 26 ft., McDonald Co., to C. I. Williams, Monett, $18,329; gravel surfacing 4.992 mi. road from Eldon east, 12 ft., Miller Co., to Fogelman & Thompson, Eugene, $23,573, 3.771 mi. Benton-Charleston Rd., 16 ft., Scott Co., to Energy Coal & Supply Co., Poplar Bluff, $34,203, 4.344 mi. road from Marshall north, 26 ft., Saline Co., to Missouri Bridge & Iron Co., Fullerton Bldg., St. Louis, $19,497, 0.872 mi. road from Bloomdale north, 16 ft., St. Genevieve Co., to C. P. O'Reilley & Co., Wainright Bldg., St. Louis, $37,648, 4,924 mi. Vienna-Dixon Rd., 12 ft., Maries Co., to J. M. Birmingham, Vienna, $27,580, 1.719 mi. road from Advance north, 16 ft., Stoddard Co., to J. L. Richmond, Advance, $19,159; concrete paving 1.97 mi. road from Springfield south, 18 ft., Greene Co., to Springfield Constr. Co., Springfield, $43,696; improving 3.23 mi. road from Bernie south, 16 ft. gravel, 40 ft. concrete, Stoddard Co., to Dexter Constr. Co., Dexter, $42,904. Noted Apr. 3.

Mo., St. Louis—Bush-Burns Realty Co., 1105 Chestnut St., 5,500 ft. Union and Natural Bridge Aves. in Hedgleigh Subdivision, incl. grading, laying streets, sidewalks, curbing, sewers, etc., to Fruin-Colnon Constr. Co., Merchants-Laclede Bldg. Engrs. est. $200,000. Noted Mar. 27.

Tex., Greenville—Hunt Co. grading and gravel surfacing 2.61 mi. State Highway 1, Greenville-Commerce Rd., 16 ft., to T. W. Maloney Co., Commerce $11,687; timber pipe trestle bridges and concrete culverts, to Austin Bridge Co., 1813 Clarence St., Dallas, $31,249. Noted Apr. 10.

Tex., Houston — Paving 10,200 sq.yd. Capitol Ave., rock asphalt, to C. K. Horton, Box 1025, $37,905.

Tex., Rosebud—Bituminous paving various streets, to P. M. Skinner, Marlin, $36,000.

Okla., Grandfield—Grading and paving 5 blocks 2nd St., 11,000 sq.yd. 6-in. concrete, 2,100 lin.ft. curbing, 3,666 cu.yd. excav., to A. M. Pearce, Edmond, $2.70 per sq.yd. for paving, total $39,682. Noted Apr. 10.

Okla., Tulsa — Grading and paving 9 blocks Greenwood Ave., 17,300 sq.yd. concrete, to Standard Paving Co., 1742 East 6th St., $83,263. Noted Apr. 3.

Idaho—Bureau of Highways, Boise, 1.82 mi. grading and 8.01 mi. surfacing on Lewis & Clark Highway, Clearwater and Lewis Counties, Federal Aid Project 50 A-B-C-D, to R. A. Burns, Lewiston, 7,318 cu.yd. solid rock excav. $1.05, 2,251 loose rock excav. $0.80, 3,805 cu.yd. earth excav. $0.36, 9,003 cu.yd. broken stone surfacing $2.22, etc., total $39,944; engrs. est. $41,950.

Idaho — State Bureau of Highways, Boise, grading and surfacing 6.9 mi. Clarks Fork Highway near Laclede, Bonner Co., Project 71 and 81, to E. A. Webster & Co., 617 Hutton Bldg., Spokane, Wash., $213,303. Noted Mar. 27.

Nevada—State Highway Comn., Carson City, grading and graveling 8.03 mi. high-

Streets and Roads (Continued)

way between Derby and Fernley, Washoe and Lyon Counties, to King & Malone, Cheney Bldg., Reno, $45,127. Noted Apr. 10.

Ore., Oregon — Clackmas Co., grading and paving 7 sections county road, to Oregon Contg. Co., Blake McFall Bldg., Portland, 19,826 cu.yd. common excav. $0.60 per cu.yd., 15,125 cu.yd. intermediate excav. $0.70, 10,700 sq.yd. concrete $2.13, 10,795 sq.yd. concrete $2.14, 20,020 sq.yd. concrete $2.13, 9,600 sq.yd. concrete $2.31, 6,200 sq.yd. concrete $2.21, 10,295 sq.yd. concrete $2.36, 25,232 sq.yd. concrete $2.35, etc., total **$309,934.**

Wash., Raymond—City Council, paving Duryea St. et al., 4,750 sq.yd. 8-in. concrete, and 3rd St. et al., 6,200 sq.yd. 6-in. concrete, to J. Slotte & Co., Astoria, Ore., $24,728 and **$37,664** respectively. Engrs. ests. $26,598 and **$41,230** respectively. Noted Mar. 27.

Wash., Seattle—Bd. Pub. Wks., grading and paving West Spokane St., 7,275 sq.yd. 8-in. concrete, to J. L. Smith, Pioneer Bldg., $2.20 per sq.yd., etc., total $56,486. Engrs. est. $59,752. Noted Apr. 17.

California—State Highway Comn., Sacramento, paving 2.78 mi. between Pasadena Ave. and Montebello, to G. H. Oswald, 366 East 58th St., Los Angeles, 18,120 cu.yd. roadway excav. $0.65, removing 2,680 cu.yd. old macadam $0.70, placing 46,680 sq.yd. old macadam and disintegrated granite sub-base $0.35, 10,450 lin.ft. Class A concrete curb $0.65, 84,620 sq.ft. Class A concrete gutter $0.32, 37,280 sq.yd. Class B concrete base $2.20, 37,280 sq.yd. asphaltic concrete surface $0.72, 8 Class A concrete culverts Type A (Plan 4) $769, 3 Class A concrete culverts Type B (Plan 4) $593, one Class A concrete culvert Type B (Plan 4) $1,200, etc., total $183,864; engrs. est. $199,056. Noted Mar. 20.

Calif., San Rafael—Marin Co., improving Manzanita-Bolinas Rd., Sects. 4, 5 and 6, 112,694 cu.yd. grading, 3,040 lin.ft. 8- to 60-in. corrugated metal pipe, 70,990 cu.yd. excav., to Guerin Bros., 425 4th St., San Francisco, $53,858. Noted Apr. 3.

Calif., South San Francisco (Branch San Francisco)—Improving various alleys, incl. 238,000 sq.ft. 5 in. concrete, 32,500 sq.ft. 4 in. concrete with 1½ in. Topeka surface, 6,300 cu.yd. grading, etc., to C. Lindgren, Box 146, Burlingame, $61,780. Noted Mar. 20.

Industrial Works

PROPOSED WORK

N. Y., Buffalo—Factory—Debrah Silk Corp. plans 3 story, 60 x 382 ft., brick and concrete, Skillen St. $180,000. W. B. Falkins, Olean, vice-pres.

N. Y., Buffalo—Factory—See "Buildings."

N. Y., Colliers (Colliersville P. O.) — Transformer Station — See "Unclassified under New York."

N. Y., New York—Plant—Houbigant, Inc., 16 West 49th St., having plans prepared by Lockwood, Greene & Co., engrs. and archts., 101 Park Ave., 11 story and basement, 100 x 125 ft., rein.-con.

N. Y., Perry — Station — Dairymens League Co-operative Assn., 333 Lafayette St., Utica, plans station, here. $160,000-$175,000.

N. Y., Wolcott — Warehouse — Building Com. Packers Assn., c/o F. Hill, chn., North Rose, plans 5 story, 100 x 125 ft., concrete and steel, here. $150,000.

Pa., Butler — Plant — Standard Plate Glass Co. having plans prepared by J. W. Cruikshank Eng. Co., Arcade Bldg., Pittsburgh, 1 story steel addition.

Fla., Sarasota — Electric Plant — City plans election to vote on $125,000 bonds enlarging electric plant.

La., Lake Charles—Mill—Lake Charles Rice Milling Co., c/o J. A. Foster, plans to rebuild 1 and 2 story, mill recently destroyed by fire. $600,000. Engineer and architect not announced.

Tenn., Knoxville — Shops — See "Railways."

Tenn., Memphis — Lumber Mill — E. L. Bruce Co., Thomas St., plans lumber mill near here. $100,000.

Ky., Louisville—Factory—Levy & Rans Co., c/o Louisville Industrial Foundation, Col. Bldg., plans factory. $40,000.

Ky., Louisville—Lumber Warehouse—W. J. Hughes & Son Lumber Co., 14th and Maple Sts., plans 1 story, 200 x 250 ft. $40,000.

O., Cleveland—Service—See "Buildings."

O., Cleveland—Shop—C. O. Bartlett & Snow Co., French and Winter Rds., having plans prepared by Allen-Osborn Co., Rose Bldg., 1 and 2 story, brick and steel, Harvard Ave. $175,000.

O., East Cleveland (Cleveland P. O.)—Sub Station—Cleveland Electric Illuminating Co., c/o E. J. Cook, engr. of construction, Illuminating Bldg., Cleveland, had plans prepared 1 story, 57 x 102 ft., brick, steel and concrete, Euclid Ave., here. $60,000. Private plans.

Ind., Columbus—Plant—I. C. Morgan, Scottsburg, plans packing plant, here. $90,000.

Ind., Evansville — Plant — Ohio Valley Roofing Co., 222 Division St., plans 3 story, 147 x 179 ft. addition to plant, Pennsylvania and Short Sts. $65,000.

Mich., Detroit—Factory—Capitol Brass Co., 2306 Franklin St., having plans prepared by Lane, Davenport & Peterson, Charlevoix Bldg., 1 story, 85 x 420 ft., brick and steel, plain foundation, West Jefferson Ave.

Mich., Wyandotte — Mill — Williamson Lumber Co. plans addition to mill. $70,000.

Ia., Davenport—Plant—Union Carbide & Carbon Co., 30 East 42nd St., New York City, plans rein.-con. and brick, plain foundation. $700,000. Private plans.

Minn., Detroit—Power Plant—City had plans prepared by L. P. Wolff, engr., 1000 Guardian Life Bldg., St. Paul, and soon takes bids 1 story, 40 x 120 ft. addition to power plant station, also furnishing and installing two 250 hp. watertube boilers. $60,000.

Minn., Fergus Falls—Power Plant, etc. —Defeated $650,000 bonds for municipal light and power plant. Noted Mar. 20.

Minn., Minneapolis—Factory—H. D. Lee Mercantile Co., 200 North 3rd St., plans factory, 2nd Ave. N. and 3rd St. $500,000. C. A. Reynolds, mgr.

Tex., Houston—Factory—W. H. Jones, Gulf Bldg., and associates plans blanket factory along Ship Channel. $500,000.

Tex., Houston — Factory — Texas Fireworks Co., South Houston St., plans factory. $75,000. Engineer and architect not announced.

Tex., Italy—Mill—Italy Oil Mill plans cotton oil mill. $75,000. Engineer and architect not announced.

Tex., San Antonio—Factory—San Antonio Macaroni Co., 1906 South Flores St., plans 70 x 240 ft., rein.-con. and brick, plain foundation. $150,000.

Calif., Oakland—Gas Generating Unit—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, plans gas generating unit, here. $150,000, incl. auxiliary equipment. Private plans.

Calif., San Francisco—Substation—Pacific Gas & Electric Co., 445 Sutter St., plans rein.-con., Substation I, Junipero Serra Blvd. and Ocean Ave. To exceed $50,000. Private plans.

Calif., Turlock—Power Plant—Turlock Irrigation Dist. plans power plant at La Grange dam. $100,000. A. Sorenson, secy.

Ontario—Ontario Hydro Electric Power Comn., 190 University Ave., Toronto, preparing plans high voltage stations at Guelph, Preston, Woodstock, Stratford, and other points in Kent and Essex Counties. $500,000.

Ont., Toronto—Plant—Dominion Tar & Chemical Co., foot Bathurst St., plans 2 story, rein.-con., brick and steel, plain foundation, Logan and Keating Ave. S. $200,000. Engineer and architect not selected.

BIDS DESIRED

N. Y., Raybrook—Storehouse and Cold Storage Plant—Apr. 29, by F. Erdwurm, pres. Bd. Trustees State Hospital for Treatment of Incipient Pulmonary Tuberculosis, at Dept. Architecture, Albany, storehouse and cold storage plant, here. S. W. Jones, Albany, archt.; adv. E. N.-R. Apr. 24. Noted Feb. 7.

Wis., Oshkosh—Print Shop—Goettmann Printing Co., 38 Main St., taking bids 2 story, 42 x 125 ft., brick and tile, plain foundation. Washington Blvd. $40,000. Private plans.

Wis., West Bend—Shop—W. Warnkey, Main St., taking bids 2 story, 40 x 70 ft., brick and timber, plain foundation. $40,000. Federal Eng. Co., 444 Milwaukee St., engrs. Noted Apr. 17.

Ia., Ames—Laundry—May 5, by State Bd. Educ., Des Moines, W. H. Gemmill, secy., 1 story and basement, brick and concrete, for Iowa State College, here. $40,000. Proudfoot, Bird & Rawson, 810 Hubbell Bldg., Des Moines, archts.

BIDS RECEIVED

N. Y., Brooklyn—Housing Station—Dept. Plant & Structures, Municipal Bldg., New York, Apr. 21, housing station, 2nd Ave., 11th and 12th Sts., here, from Eastern Constr. Co., 110 West 40th St., New York, $101,623. Noted Apr. 17.

N. Y., Long Island City—Housing Station—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Apr. 14, general contract, rein.-con., brick and steel, plain foundation, Beach 63rd St. and Thursby Ave., from M. J. Irwin & Son, 19 Hulst St., Brooklyn, $32,485. Noted Apr. 10.

N. Y, New York — Housing Station — Dept. Plant & Structures, Municipal Bldg., rein.-con., brick and steel, plain foundation, 139th St. and Harlem River, from W. W. Constr. Co., 15 East 40th St., **$658,381.** Noted Apr. 17.

CONTRACTS AWARDED

Mass., Cambridge (Branch of Boston)—Factory—Rinulai Tile Co., Inc., 264 Atlantic Ave., 3 story, 48 x 105 ft., brick and steel, Carleton St., to F. J. Van Etten Co., 100 Boylston St., Boston. Archts. est. $65,000.

R. I., Providence—Factory—Gutta Percha Paint Co., Dudley St., 3 story, 60 x 80 ft., brick and steel addition, Dudley St., to O. D. Purington, Industrial Trust Bldg. Archts. est. $60,000.

N. Y., Hornell — Shop — Erie R.R., 50 Church St., New York, will build wheel repair shop, steel and concrete, here, by day labor, under supervision of Eng. Dept. $50,000-$75,000.

N. Y., Minetto — Mill — Columbia Mills, Inc., 4 story and basement, brick, steel and concrete, to Drass Bros., Niagara Falls, $150,000.

N. J., Trenton — Pottery — T. Maddock Sons Co., Ewing and Perry Sts., 1 and 2 story, 250 x 1,750 ft., to C. J. Smith Constr. Co., 202 Academy St., $750,000. Noted Jan. 31.

Pa., York—Plant—U. S. Chain Co., 1 story, 60 x 200 ft. addition to plant, to Fort Pitt Bridge Wks., Canonsburg.

Tenn., Nashville—Shoe Factory—Jarman Shoe Co., 2nd and Shelby Sts., 2 story, rein.-con. and steel, to J. L. Webb Lumber Co., Shelby Ave., $40,000.

Ky., Louisville—Mill and Warehouse—W. J. Hughes & Sons Lumber Co., 14th and Maple Sts., rebuilding lumber mill, warehouse, etc., to C. A. Koerner Co., 318 East Burnett St. Est. cost incl. machinery $225,000.

Ky., Paducah — Mill — Priester Hosiery Mills, 2 story addition, rein.-con. and brick, 9th St. and Kentucky Ave., to J. Cole, Paducah. Est. cost $40,000.

Ill., East St. Louis—Foundry—East St. Louis Steel Castings Co., 1 story, brick, concrete and steel, to Keeley Bros., Belt and State Sts. Archts. est. $40,000.

Wis., Racine—Factory—Wisconsin Metal Products Co., 16th and Ann Sts., 1 story, 98 x 246 ft., brick and timber, plain foundation, to Bondgard & Christensen, 1135 Mound Ave. $60,000. Noted Mar. 27.

Wis., Racine—Foundry—Belle City Malleable Iron Co., Kewaunee St., 1 story, 117 x 306 ft., brick and steel, plain foundation (2nd unit) to Nelson & Co., Janes Bldg. Archts. est. $80,000. Noted Jan. 10.

Wis., South Milwaukee—Tool Room—Bucyrus Co., 1 story, 30 x 100 ft., brick and steel, plain foundation, to P. Riesens Sons, 1012 Humboldt Ave., Milwaukee. $40,000.

Minn., Duluth — Plant — Stone-Orden-Wells Co., South West 5th Ave., 5 story and basement, 85 x 135 ft., rein.-con. and steel, general contract to G. H. Lounsberry, 322 East Superior St., $108,135. Archts. est. $150,000 complete. Noted Apr. 10.

Minn., Minneapolis — Factory, etc. —Bureau of Engraving, 500 4th Ave., S., 3 story and basement, 100 x 100 ft., rein-con., brick and tile, addition to factory, school, etc., 500 4th Ave. S., to Madsen & Peterson, 646 Builders Exch. $100,000. Noted Nov. 15.

Kan., Fredonia — Power Plant, etc. — Power plant and oil storage tank, to F. C. Randal Constr. Co., Wichita, $19,780; Diesel oil engine generating units, switchboard, and installation, to Worthington Pump & Mchy. Co., 825 Scarritt Bldg., Kansas City, Mo., $61,375; distribution and street lighting system, to Nebin Bros. Electric Constr. Co., Muskogee, Okla., $31,483. Noted Apr. 3.

Ark., Little Rock — Plant — Arkansas Brick & Tile Co., 111 Center St., 1 story, steel plant, to Ingalls Iron Wks., 720 Ave. D, Birmingham, Ala. Archts. est. $40,000.

Industrial Works (Continued)

Mo., St. Louis—Marble Works—Bradbury Marble Wks., 3417 Morganford Rd., 1 story, 133 x 186 ft., steel and concrete, to Illinois Steel Bridge Wks., Jacksonville, Ill., $40,000.

Mo., St. Louis—Factory—Hadley Bros. & Uhl Co., 3952 West Pine Blvd., 2 story and basement, 50 x 113 ft., brick and concrete, to J. W. Mullins, 4569 Laclede St.

Calif., San Bernardino—Machine Shop—Atchison, Topeka & Santa Fe Ry., Kerckhoff Bldg., Los Angeles, building Unit 4, 180 x 220 ft., here, to Sumner Sollitt Co., Delta Bldg., Los Angeles.

B. C., Essondale—Power Plant—Dept. Pub. Wks., Victoria, 2 story, 50 x 160 ft. rein.-con., brick and steel, on hospital grounds, here, to McDougall & McNeill, Birks Bldg., Vancouver, $140,000. Noted Mar. 27.

B. C., Point Grey—Power Plant—Dept. Pub. Wks., Victoria, 45 x 56 x 120 ft. steam heat and power plant, on University grounds, here, for University of British Columbia, 10th and Willow Sts., Vancouver, to Smith Bros. & Wilson, 850 Hastings St. W., Vancouver, $93,000. Noted Mar. 27.

B. C., Stave Falls—Power Plant—British Columbia Electric Ry. Co., 425 Carroll St., Vancouver, will build new generator unit, by day labor; generator, etc., to Canadian General Electric Co., 1065 Pender St. W., Vancouver, $500,000; turbine to Allis-Chalmers Co., West Allis, Milwaukee, Wis., $150,000.

Buildings

PROPOSED WORK

Mass., Cambridge—Warehouse—Haskell Adams Co., 5 Commercial St., Boston, plans warehouse, Henry St., here. $150,000-$200,000.

Mass., Lynn—High School—School Bd. plans to build school to replace one recently destroyed by fire. $400,000-$500,000.

Mass., Newton—Hospital—Newton Hospital plans ward building. $300,000-$400,000. L. B. Rogers, 28 Lenox St., West Newton, member of committee.

N. Y., Bath — Lodge — Local Masonic Fraternity had plans prepared by F. Empey, Bath, for new lodge. $150,000-$175,000.

N. Y., Buffalo—Church—Building Com. Evangelical Lutheran Church plans brick, stone and concrete, 2 Wallace St. $250,000. P. J. Kuhns, 2792 Main St., chn.

N. Y., Buffalo—Office—Amer. Radiator Co., 1803 Elmwood St., plans brick, concrete and steel addition. $150,000.

N. Y., Brooklyn — Synagogue — Union Temple, Bedford and Lafayette Aves., had plans prepared by A. H. Brunner, 101 Park Ave., New York City, brick, steel and stone, plain foundation, Eastern Parkway and Plaza St. $1,000,000. Noted Jan. 17.

N. Y., Canton—School—Bd. Educ. had plans prepared by D. D. Kieff, Flower Bldg., Watertown, 2 story and basement, brick, stone and concrete. $150,000. Noted Feb. 28.

N. Y., New York — Apartment — L. A. Abramson, archt. and engr., 48 West 46th St., making sketches 14 story, brick, stone and steel, plain foundation, Madison Ave. and 59th St. Owner's name withheld.

N. Y., New York—Apartment—V. Astor, 23 East 26th St., having plans prepared by C. A. Platt, archt. and engr., 101 Park Ave., 12 story, brick, stone and steel, plain foundation, 5th Ave. and 65th St. $1,500,000.

N. Y., New York City — Apartment — Dochterman Realty Co., c/o J. M. Felson, archt. and engr., 1133 Bway., had plans prepared 10 story, brick, stone and steel, plain foundation, Ft. Washington Ave. $750,000.

N. Y., New York—Apartment—D. H. Jackson, 565 5th Ave., having sketches prepared by J. Craig Severance, 36 West 44th St., 16 story, 100 x 125 ft., brick, stone and steel, plain foundation, Riverside Dr. and 122nd St. $2,000,000.

N. Y., New York—Apartment—One Fifty One East 79th St. Corp., c/o Rouse & Goldstone, ar hts. and engrs., 512 5th Ave., having plans prepared 15 story, brick, steel and stone, plain foundation, East 79th St. $500,000.

N. Y., New York — Apartment — K. P. Walker, c/o Mott B. Schmidt, archt. and engr., 14 East 46th St., having plans prepared 15 story, brick, steel and stone, plain foundation, Park Ave. and 88th St. $2,000,000.

N. Y., New York—Apartment Hotel—S. B. Behrman, c/o R. T. Lyons, archt. and engr., 342 Madison Ave., soon takes bids 15 story, brick, steel and stone, plain foundation, West End Ave. $1,000,000.

N. Y., New York—Garage—B. J. Catts, c/o Block & Hess, archts. and engrs., 18 East 43rd St., having preliminary plans prepared 5 story, 100 x 100 ft., rein.-con. and brick, plain foundation, East 55th St.

N. Y., New York—Loft—Selmour Realty Corp., c/o Schwartz & Gross, archts. and engrs., 347 5th Ave., will build brick, steel and stone, plain foundation, 250 West 40th St., by day labor. $600,000.

N. Y., New York—Warehouse—R. W. Realty Co., Inc., 121 Duane St., having plans prepared by Lockwood, Greene & Co., engrs. and archts., 101 Park Ave., 6 story and basement, 110 x 120 ft., rein.-con.

N. Y., Syracuse—Lodge—Building Com. Syracuse Lodge Elks 31, plans new lodge building. $200,000. J. B. Spencer, chn. Engineer and architect not selected.

N. J., Asbury Park—High School—Bd. Educ. plans high school. $1,000,000. E. A. Arend, Kinmoth Bldg., archt.

N. J., Jersey City — Store House — Bd. Educ. having sketches made by J. T. Rowland, archt. and engr., 100 Sip Ave., 3 story, brick, steel and stone, plain foundation, Park St. $220,000.

N. J., Newark—High School—Bd. Educ., City Hall, having sketches made by Guilbert & Bettelle, 2 Lombardy St., for West Side High School, steel and stone, plain foundation, South Orange Ave. and South 12th St. $500,000.

N. J., Newark—High School—Bd. Educ. having plans prepared by Guilbert & Bettolle, 2 Lombardy St., brick and stone, plain foundation, Van Buren St. $500,000.

Pa., Johnstown — Office — Johnstown Water Co., Locust St. and Lee Pl., plans 3 story and part basement, 100 x 200 ft., concrete, brick and steel office, storehouse, etc., Locust St. $150,000. C. W. Runkle, supt.

Pa., Johnstown — Safety — City having plans prepared by Hersh & Sholler, Commerce Bldg., Altoona, 5 story and basement, 85 x 100 ft. Washington St. $150,000.

Pa., Phila.—Office—Maryland Casualty Co., 324 Walnut St., plans office, Walnut St.

Pa., Pittsburgh—School and Chapel—Church of Nativity, 4068 Franklin Rd., having plans prepared by C. G. Strong, Union Bank Bldg., 3 story and basement, 55 x 100 ft., brick and tile, Franklin Rd. $150,000.

Pa., Williamsport—Church—Evangelical Church Extension Bd. plans 2 story and basement, 100 x 130 ft., stone, Lycoming Rd. and Roosevelt Ave. $150,000. C. I. Raffensberger, Williamsport, presiding elder.

Pa., Windber—Church—St. Marys Greek Catholic Church, having plans prepared by H. L. Reinhold, 1513 Walnut St., Phila., 2 story and basement, 120 x 150 ft. stone, Somerset Ave. $175,000.

Md., Baltimore — High School — Pub. Impvt. Com., Hearst Tower, rejected bids 3 story and basement, 50 class rooms, Gwynns Falls Park. Will readvertise shortly. Smith & May, Calvert Bldg., engrs. Noted Mar. 27.

D. C., Wash.—Apartment—Stern & Tomlinson, archts., Continental Trust Bldg., preparing plans apartment house. $200,000. Owner's name withheld.

D. C., Wash.—Garage and Plant—Chestnut Farm Dairy had plans prepared garage and plant. $300,000. Private plans.

D. C., Wash.—Home—A. B. Mullett & Co., Union Trust Bldg., preparing plans Henry and Annie Hurt Home for Blind. $250,000.

D. C., Wash. — School — St. Martins Church had plans prepared by M. F. Moore. Colorado Bldg., parochial school. $175,000.

Va., Grundy—School—Christian Church having plans prepared by Mahood & Van Dusen, Bluefield, W. Va., administration building, boys and girls dormitory, auditorium with chapel, gymnasium, industrial shops, central heating plant, all native stone, for Mountain Industrial Institute. $300,000.

W. Va., Bluefield—Church—Westminster Presbyterian Church having plans prepared by H. L. Cain, 501 Grace St., Richmond, Va., 3 story and basement, brick. $150,000.

W. Va., Huntington—Church and Gymnasium—First Presbyterian Church, 1015 5th Ave., having plans prepared by R. L. and S. L. Day, 1st Natl. Bank Bldg., 3 story church and gymnasium. $150,000.

W. Va., Huntington—Lodge—I. O. O. F. (Fidelity Lodge 123) having preliminary plans prepared by L. J. Dean, Foster Bldg., lodge, $150,000.

Fla., Miami—Church—Christian Science Church, c/o S. R. Shearston, chn. building board, had plans prepared by A. Geiger, Townley Bldg., 85 x 174 ft., terra cotta and limestone, O'Reilly and Havana Sts. $220,000.

Fla., Sarasota—Hotel—W. H. Pepkorn, 712 Park St., Milwaukee, Wis., had plans prepared by F. A. Hammill, Tampa, 10 story, 50 x 100 ft., rein.-con. and steel, Main St. and Palm Ave., here. $225,000.

Fla., Tampa—Hotel—W. Curry, Bradentown, having plans prepared by F. J. James, Citizens Bank Bldg., 2 story addition to Park View, Lafayette St., here. $200,000.

Fla., Tampa—Hotel—W. C. Gaither having plans prepared by F. J. James, Citizens Bank Bldg., 3 story, 70 x 135 ft., rein.-con., brick and tile, Magnolia and De Leon Sts. $185,000.

Ala., Birmingham—Office—Jefferson Co. Building & Loan Assn., 113 North 21st St., plans 8 story, 40 x 100 ft., concrete and reinforced steel, 21st St. and 2nd Ave. Engineer and architect not selected.

La., Shreveport—Church—First Presbyterian Church having plans prepared by Jones, Roessle & Olschner, 1023 Masin Blanche Bldg., New Orleans and 218 Ardis Bldg., Shreveport, and takes bids about May 30, brick, steel and stone. $250,000.

Tenn., Nashville — Hospital — Tennessee Baptist Convention plans hospital. To exceed $150,000. R. M. Dudley, Rosebank Ave., member building committee. Engineer and architect not selected.

Tenn., Nashville — Hotel — C. Loridans Hotel Co. having plans prepared by Marr & Holman, Stahlman Bldg., 12 story and basement, 80 x 175 ft., concrete, cut stone, brick and steel, 6th and Dedderick Sts. $1,500,000. Noted Sept. 13.

Ky., Lebanon — Church — Nevin, Wischmeyer & Morgan, archts., Starks Bldg., Louisville, opens bids about June 1 (extended date), church and Sunday School, for United Presbyterian Church, here. $150,000. Noted Mar. 20.

Ky., Louisville — Garage and Store — Platoff & Bush, 122 West Liberty St., plans 2 story and basement, 75 x 125 ft., 833 South 3rd St. $150,000.

Ky., Louisville—Memorial Auditorium—Louisville Memorial Auditorium Comn., City Hall, having plans prepared by Carrere & Hastings, 52 Vanderbilt Ave., New York City, memorial auditorium. $1,250,000. Noted Dec. 10.

Ky., Louisville—Sunday School—Second Presbyterian Church, 2nd and Bway., having plans prepared by A Loomis, Todd Bldg., 2 story and basement addition. $150,000.

O., Cincinnati—Law College—University of Cincinnati, Clifton Ave., plans 2 story, brick and stone. $250,000. H. Hake, Telephone Bldg., archt.

O., Cleveland—Church—St. Johns Cantios Roman Catholic Church, 906 College Ave., had plans prepared by Potter-Gabele Co., Prospect-4th Bldg., 1 story, 90 x 190 ft., brick and steel, Professor and College Sts. $200,000.

O., Cleveland — Dance Hall — B. Karp, Union Bldg., having plans prepared by Q. J. Goldstein, Ohio Bldg., 2 story, 106 x 227 ft., brick and steel, East 96th St. and Euclid Ave. $175,000.

O., Cleveland—Sales Room, etc.—T. H. Towell, pres. and treas. Cleveland Cadillac Co., 1935 Euclid Ave., having plans prepared by W. S. Lougee, Marshall Bldg., 10 story, 84 x 200 ft. salesroom and office building, 4 story, 84 x 200 ft. service building, and 4 story, 92 x 300 ft. store, brick, steel and concrete, Euclid Ave. $1,500,000.

O., Cleveland — School — Holy Trinity Church, 7211 Woodland Ave., having plans prepared by J. M. Miller, Plymouth Bldg., 2 story, 60 x 160 ft., brick, steel and concrete, East 72nd St. $150,000.

O., Cleveland Heights (Warrensville, P. O.)—Office, Commercial and Apartment—H. Caplan, 3464 East 123rd St., Cleveland, plans 3 story and basement, brick, Coventry and Hampshire Rds., here. $250,000. Engineer and architect not selected.

Ind., Holton—High School—Bd. Educ. plans 2 story and basement. $150,000. H. P. Henkel, Connersville, archt.

Mich., Detroit—Apartment—Lennane & McIlvenna, 1121 Beck Bldg., having plans prepared by Williams & Coughlan, 1111 Kresge Bldg., 4 story and basement, 60 x 100 ft., brick, plain foundation, Pine and National Sts. $150,000.

Mich., Detroit — Apartment — A. Cohen, c/o A. F. Herman, archt., 710 Owen Bldg., had plans prepared 8 story and basement, 110 x 190 ft. rein.-con., brick, steel and stone, plain foundation, 2nd Blvd. and Peterboro St. $1,000,000.

Buildings **(Continued)**

Mich., Detroit—Hotel—F. C. Shipman, 1348 Penobscot Bldg., had plans prepared by H. T. Millar, 242 West Lafayette Ave., 3 story and part basement, 100 x 110 ft. brick and steel, plain foundation, Kercheval and Lenox Aves. $155,000.

Mich., Detroit—Lodge—Arbiter Society, E. Krause, pres., 5970 Crane Ave., having plans prepared 3 story and basement, 71 x 102 ft. rein.-con., brick and steel, plain foundation. Mack and Seminole Aves. $155,000. Architect's name withheld.

Mich., Detroit—School—Christians Church, c/o W. Garstecki, archt., 403 Hoffman Bldg., plans 2 story and basement, 60 x 100 ft. brick and steel, plain foundation, McDougall Ave., $150,000.

Mich., Detroit—Y. M. C. A., A. G. Studer, genl. secy., Y. M. C. A. Bldg., having plans pepared 6 story and basement, 1,000 rooms, rein.-con., brick and steel annex, plain foundation, Elizabeth St. Architect's name withheld.

Mich., Highland Park (Detroit P. O.)—Church — St. Pauls Methodist Episcopal Church, Highland Park, having plans prepared by Butterfield & Butterfield, 32 Campau Bldg., Detroit. 3 story and part basement, 90 x 90 ft., rein.-con., brick and stone, plain foundation. $150,000.

Mich., Highland Park (Detroit, P. O.)—Office—Wayne Co. Bond & Mortgage Co., 812 Free Press Bldg., Detroit having plans prepared by Bonnah & Chaffee, archts., 528 Farwell Bldg., Detroit, 1 story and basement, 60 x 75 ft. rein.-con. brick and terra cotta, plain foundation, Woodward Ave.

Mich., Owosso—High School—Bd. Educ. having plans prepared by Lane, Davenport & Peterson, Charlevoix Bldg., Detroit, two 2 story and basement, one 60 x 200 ft., and other 100 x 240 ft., rein.-con., brick and steel, plain foundation, $350,000.

Ill., Aurora—Office and Bank—Second Natl. Bank having plans prepared by G. G. Elmslir, 122 South Michigan Ave., Chicago, 3 story, 50 x 200 ft., fireproof. $150,000.

Ill., Chicago — Apartment — Claremont Building Corp., c/o R. F. France, archt., 155 North Clark St., having plans prepared 7 story, 50 x 150 ft., fireproof, 509 Belmont St. $700,000.

Ill., Chicago—Apartment—Owner c/o A. V. Teisen, archt., 4804 North Kedgie St., having plans prepared 3 story and basement, 90 x 160 ft., fireproof. $150,000.

Ill., Chicago—Office—W. F. Hall Printing Co., 466 West Superior St., having plans prepared by Weiss & Niestadt, 53 West Jackson Blvd., 2 story, 100 x 500 ft., fireproof, Diversey and Kilpatrick Sts. $1,000,000.

Wis., Madison—Dormitory—University of Wisconsin, J. D. Phillips, business mgr., Administration Bldg., having plans prepared by A. Peabody, State Capitol, 4 story, 50 x 120 ft., brick. rein.-con. and stone, plain foundation. $150,000.

Wis., Madison—Gymnasium—University of Wisconsin, J. D. Phillips, business mgr., Administration Bldg., plans gymnasium and field house, rein.-con., brick and steel, plain foundation. $350,000. Engineer and architect not selected.

Wis., Milwaukee—Garage—N. W. Motor Car Co., 2418 North Ave. having plans prepared by Voelz & Siebert, 373 Bway., 2 story and basement, 67 x 116 ft., brick and concrete, plain foundation. $150,000.

Wis., Oshkosh—Church—First Methodist Congregation, C. C. Smith, pastor, 108 Jefferson Ave., having plans prepared by Auler & Jensen, F. R. A. Bldg., 2 story, 62 x 120 ft., brick and stone, plain foundation, Main St. $150,000.

Ia., Iowa City—Memorial—University of Iowa Alumni, c/o Boyd & Moore, archts., 1020 Grand Ave., Des Moines, had plans prepared 3 story and basement, rein.-con., brick, tile and stone, on campus. $200,000. First unit of $1,000,000 project. Noted Jan. 31.

Kan., Wichita—Apartment—W. H. Gaines, c/o Eaton Hotel, having preliminary plans prepared 5 story and basement, rein.-con., brick and terra cotta, Poplar and Douglas Sts. $300,000.

Neb., Grand Island—Temple and Office—Kirsche & Baker, archts., Ryan Bldg., take bids about June 1, 7 story and basement, 33 x 52 ft., rein.-con., brick and steel, Locust St., for Masonic Lodge, c/o C. H. Menck, 118 South Division St.

Neb., Omaha—Hotel—R. and D. Kitchin, Paxton Hotel, plan 8 story and basement, 66 x 66 ft., 14th and Farnum Sts. $750,000. Engineer and architect not selected.

Neb., Omaha—High School—Bd. Educ. having plans prepared by J. Latenser & Sons, 732 Peters Trust Bldg., remodeling high school, 20th and Dodge Sts. $200,000.

Neb., Omaha—Theatre—Orpheum Theatre, c/o W. H. Hartung, mgr., plans theatre. $300,000.

Mo., Columbia — Church and Sunday School—Christian Church, c/o Pastor 1st Christian Church, plans 2 story and basement, rein.-con., brick and stone. $250,000. Engineer and architect not selected.

Mo., Jefferson City—High School—Plans election in May $300,000 bonds, 3 story high school. Engineer and architect not named. Noted Jan. 31.

Mo., St. Louis—Garage—P. Brockman, pres. Police Dept., 112 South 12th Blvd., takes bids about Apr. 21, 2 story and basement, 143 x 150 ft., rein.-con., brick and stone, Laclede Ave. $150,000. H. G. Clymer, Wainwright Bldg., archt.

Mo., St. Louis—Hospital—Hoetner, Baum & Froese, archts., Federal Reserve Bldg., open bids about May 15, 4 story, 65 x 160 ft., rein.-con., brick and stone, Carter and Newstead Sts., for Christian Hospital, 3540 North Grand Blvd. $275,000. Noted June 7.

Mo., Webster Groves (branch of St. Louis)—Seminary—Evangelical Synod of North America, c/o Evangelical Theological Seminary, St. Louis, plans new seminary, here. $1,000,000.

Tex., Dallas—Auditorium—R. H. Hunt & Co., archts., Southwestern Life Bldg., takes bids in 30 days, 3 story and basement, brick, steel and concrete, Campus for Southern Methodist University, Dallas. Noted Feb. 21.

Tex., Dallas—Hotel—B. F. Easterwood and associates c/o B. D. Easterwood, archt., Liberty Bank Bldg., Waco, having plans prepared 20 story and basement, 83 x 144 ft. $2,000,000. Noted Mar. 13.

Tex., El Paso—Hotel—R. B. Orndorff, Orndorff Hotel, had plans prepared 10 story and basement, brick and concrete, Mills St. $500,000. Engineer and Architect not announced.

Tex., El Paso—Schools—Election Apr. 30, $500,000 bonds, schools. Address Mayor Dudley.

Tex., Lubbock—College—Texas Technical College, c/o A. G. Carter, chn. Bd. Regents, Star Telegram Bldg., Ft. Worth, takes bids within 60 days, administration and chemical buildings, power house and president's home. $500,000 for 1st unit. Robert & Co., Interurban Bldg., Dallas, engrs. Sanguinet Staats & Hedrick, First Natl. Bank, Ft. Worth, archts. Noted Mar. 13.

Tex., Waco—Municipal—Plans election $500,000 bonds, new municipal building. V. G. Koch, city engr.

Wash., Everett — School — School Bd. having plans prepared by Morrison & Stimson, Lumber Exch. Bldg., Seattle, 3 story, 40 classrooms, etc. $300,000.

Calif., Los Angeles—Apartment—El Cantano Apartments, 507 Citizens Natl. Bank Bldg., having preliminary plans prepared by E. P. Lewis, 934 Burck Pl., 10 to 12 story and basement. rein.-con., Highland and Sycamore Sts. To exceed $350,000.

Calif., Los Angeles—Club—Commercial Club having plans prepared by E. Bergstrom, Citizens Natl. Bank Bldg., 13 story and basement, 50 x 112 ft., rein.-con., South Bway. $500,000.

Calif., Orange—Club, Lodge and Store—B. P. O. E. having plans prepared by H. N. Thornton, Hill Bldg., Santa Ana, fireproof, on 75 x 120 ft. site, Orange St. $150,000 or more.

Calif., Pittsburg—Store and Lodge—Elks Hall Assn. (B. P. O. E.) plans store and lodge rooms. $150,000.

Calif., San Diego — Hotel, etc. — M. J. Lyon, archt., 916 Kearny St., San Francisco, preparing plans, hotel, wharf concessions, brick and terra cotta manufacturing plant, mill rock crushing plant, waterworks, sewerage system, street improvements, etc., here. Owner's name withheld. Architect desires catalogues of materials and equipment for project.

Calif., San Francisco — Apartment — M. Cohn, c/o Baumann & Jose, archts., 251 Kearny St., having plans prepared, 6 story and basement, rein.-con., Ellis St. near Hyde St. $150,000.

Calif., San Francisco—Apartment—L. D. Stoff, 1035 Sutter St., having plans prepared by Baumann & Jose, 251 Kearny St., 4 story and basement, rein.-con., Sacramento St. near Franklin St. $150,000.

Que., Montreal—Bank—City and District Savings Bank, St. James St., plans addition, St. James and Notre Dame Sts. $150,000.

Que., Montreal—Church—St. Cecile Parish plans church. $250,000. Gascon & Parent, 502 St. Catherine St. E., archts.

Que., Montreal—Garage—P. Labelle, 721 Dorchester St. W., plans 4 story, 115 x 170 ft. rein.-con. garage, Bishop and Dorchester Sts. $150,000.

Que., Montreal—School—Catholic School Comrs., 87 St. Catherine St., plans school on Rouen St., to replace Meilleur School, which was destroyed by fire. $200,000.

Que., Montreal—Office—Bell Telephone Co. of Canada, Notre Dame St. W., plans 3 story, 80 x 90 ft. rein.-con. and brick, Papineau St. $150,000.

Que., Sherbrooke — Hospital — Catholic Organizations of Sherbrooke having plans prepared by J. W. Gregoire, Sherbrooke, addition to St. Vincent de Paul Hospital, also addition to seminary of St. Charles Borromee, presbytery in St. Jean Baptiste Parish. $1,200,000.

Que., Sherbrooke — Normal School — Catholic Organizations of Sherbrooke having plans prepared by L. N. Audet, Sherbrooke, normal school in St. Therise d'Avila in North Ward. $300,000.

Ont., London — Exchanges, etc. — Bell Telephone Co. of Canada, 118 Notre Dame St. W., Montreal, Que., plans to expend $600,000 in city as follows: $157,000 for branch exchange on Dundas St., $440,000 for equipment, $64,000 improving main exchange. W. G. Carmichael, 118 Notre Dame St. W., Montreal, Que., archt.

Ont., Stratford—School—Bd. Educ. plans 3 story and basement, 20 room, rein.-con., brick and steel, plain foundation, $250,000. Engineer and architect not selected.

Ont., Toronto — Nurses Home — Western Hospital, Bathurst St., having plans prepared by E. J. Lennox, 164 Bay St., 4 or 5 story and basement, rein.-con., brick and steel, plain foundation, Bathurst St. $250,000.

Ont., Toronto—Stores and Offices—J. H. McKnight, 88 St. David St., having plans prepared 4 story and basement, 70 x 100 ft., rein.-con., brick and steel, plain foundation, Bay and Dundas Sts., $150,000. Private plans.

Ont., Toronto—School—Bd. Educ., 155 College St., having plans prepared by C. Dyson, 155 College St., 2 story and basement, 8 room, rein.-con., brick and steel, plain foundation. $150,000.

BIDS DESIRED

N. Y., Binghamton—High School—May 14, by Bd. Contr. & Supply, East Junior High School, Broad Ave. and Robinson St. $425,000. T. I. Lacey & Son, Press Bldg., archts. Noted Mar. 27.

N. Y., Creedmoor (Jamaica, P. O.)—Hospital—May 7, by State Hospital Comn., Albany, construction work, pump house for disposal plant, tunnel extension for underground heating system and reservoir for water supply system, etc., at Creedmoor Div. Brooklyn State Hospital, here. S. W. Jones, Albany, state archt.; adv. E. N.-R. Apr. 24.

N. Y., Garden City—School—May 12, by Bd. Trustees Common School Dist. 18, Hempstead, elementary school, Stewart and Cherry Valley Aves., here. Starrett & Van Vleck, 8 West 40th St., New York City, archts.; adv. E.N.-R. Apr. 24.

N. Y., New York—High School—May 13, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, addition to High School of Commerce, West 65th St. and Amsterdam Ave., here, for Bd. Educ., 500 Park Ave.

N. Y., New York—Nurses' School—May 1, at office General Medical Superintendent, Bellevue Hospital, 415 East 26th St., additional wings to Bellevue training school for nurses. J. J. McGrath, pres.

N. Y., Stamford — Library and Gymnasium—May 1, by Bd. Educ. U. F. School Dist. 1, for Dr. Churchill Memorial library and gymnasium. To exceed $150,000. O. Epps, Stamford, archt.

N. Y., Wende (Millgrove P. O.)—Jail—Apr. 29, by Bd. Supervs. Erie Co., City Hall, Buffalo, 400 x 500 ft., rein.-con. and brick cell building, 40 ft. high, for Erie Co. Penitentiary, here. $600,000. W. J. Beardsley, 49 Market St., Poughkeepsie, archt.

N. J., Trenton — School — Apr. 28, by Hamilton Twp. Bd. Educ., 1770 Nottingham Way, 2 story and basement, 87 x 132 ft. Former bids rejected. $150,000. H. J. McCall, pres. W. A. Kleman, 1st Natl. Bank Bldg., archt. Noted Apr. 10.

Pa., Jersey Shore—High School—May 8, by J. F. Person, chn. building com. Bd.

Buildings (Continued)

Educ., 3 story and basement, 90 x 130 ft. concrete, brick and steel, $150,000. Lawrie & Greeney, 116 Locust St., Harrisburg, archts.

Pa., Phila.—Hospital, etc.—May 2, by W. Krusen, dir. Pub. Health, 584 City Hall, building construction, plumbing, heating, electrical work, extensions to Bldgs. E and F and alterations to boiler house, iron fences, gates, macadam roads and grading at Phila. Hospital for Insane at Byberry, 35th Ward, constructing Bldgs. L, M, N & O and connecting corridors, extending dining room and kitchen, power house, at Phila. Institute for Feeble Minded at Byberry, 35th Ward. $2,000,000.

Pa., Phila.—Warehouse—Apr. 28, by C. Wunder, archt., 1520 Locust St., 2 story and basement, brick, plain foundation, Stokley Ave. west of Westmoreland St., for Ritter Bros. & Co., 1022 Race St. $150,000.

Md., Baltimore — Animal House and Aviary—Apr. 30, by Bd. Awards, 1 story and basement, 60 x 410 ft., brick and stone, plain foundation, Druid Hill Park. $175,000. T. W. Pietsch, Amer. Bldg., archt. Noted Oct. 18.

Md., St. Marys City—Seminary—Apr. 28, by S. Russell, archt., 11 East Lexington St., Baltimore, 3 story and basement, 42 x 152 ft., concrete and brick, plain foundation, here, for St. Marys Female Seminary.

W. Va., Bluefield — Church and Gymnasium—Westminster Presbyterian Church taking bids and opens same about May 1. 3 story and basement, $150,000. H. L. Cain, 501 Grace St., Richmond, Va., archt. Noted Apr. 17.

W. Va., Parkersburg—Hotel—Apr. 28, by E. A. Brast, 6 story and basement, 56 x 75 ft., rein.-con. and brick, plain foundation, West South 7th St., and South Market Sts. $700,000. Pleasants Pennington, 2 East 41st St., New York City, engrs.

La., New Orleans—School—May 9, by Orleans Parish School Bd., City Hall, constructing McDonough School 28, 3 story, 170 x 186 ft., brick, limestone and stucco, Esplanade and White Sts. $250,000. Noted Apr. 10.

Ky., Louisville—Theatre, Club and Hotel Annex—J. G. Brown, Brown Hotel, taking bids and opens same about May 10, 7 story, Bway. near 4th St. $1,000,000. J. B. Bradshaw, International Life Bldg., St. Louis, Mo., archt. Noted Mar. 27.

O., Cleveland—Apartment—Van Sweringen Co., c/o W. Pease, engr., Marshall Bldg., taking bids completing 3 brick apartments, Shaker Blvd. Total cost $650,000. A. W. Harris, Discount Bldg., archt.

O., Cleveland — Home — Eliza Jennings Home, c/o C. S. Orr, pres., 10503 Detroit Ave., taking bids 3 story, 90 x 160 ft., brick, steel and concrete. $250,000. Meade & Hamilton, 1002 Natl. City Bldg., archts. Noted Jan. 3.

O., Youngstown—Bank—Apr. 30, by A. Kahn, archt., 1000 Marquette Bldg., Detroit, Mich., 13 story and basement, brick, steel, rein.-con. and stone, plain foundation, here, for Mahoning Natl. Bank, Market St. and Public Sq. To exceed $500,000.

Mich., Highland Park (Branch Detroit) —School—Apr. 29, by R. A. Palmer, business mgr. Bd. Educ., 2 story and basement, 120 x 200 ft. rein.-con., brick and steel, plain foundation, 2nd Blvd. and Midland Ave. $275,000. Burrowes & Eurich, 2631 Woodward Ave., Detroit, archts.

Mich., Wayne—School—May 5, by Secretary Bd. Educ. Dist. 9, 2 story and part basement, 150 x 150 ft. rein.-con., brick and steel, plain foundation. Warren-Holmes Power Co., Lansings, archts.

Ill., Urbana—University—May 16, at office J. M. White, superv. archt., 256 Administration Bldg., University of Illinois, general work, heating, plumbing and electric wiring of dairy manufactures building; heating, ventilating, plumbing and electric wiring of library; heating and ventilating of commerce building; plumbing and electric wiring of men's gymnasinm; adv. E. N.-R. Apr. 24.

Wis., Kohler—Office—Brust & Philipp, archts., 405 Bway., Milwaukee, taking bids 3 story and basement, 64 x 210 ft., brick and concrete, plain foundation, for Kohler Co. $300,000.

Wis., Madison—School—Bd. Educ., H. W. Pickford, clk., 22 West Dayton St., taking bids 2 story, 111 x 163 ft., brick, rein.-con. and steel addition, plain foundation, $175,000. F. L. Kronenberg, Carroll Blk., archts.

Wis., Milwaukee—Apartment—Clas, Shepherd & Clas, archts., 445 Milwaukee St., taking bids 3 story and basement, 79 x 115 ft., brick and concrete, plain foundation, Grand Ave., for A. Kuzmanovic, 68 South 6th St. $150,000. Noted Jan. 17.

Wis., White Fish Bay—School—May 2, by School Dist. 1, W. A. Klatte, clk., 2 story and basement, 92 x 116 ft., brick, concrete and tile, plain foundation. $150,000. M. Tullgren & Sons, 425 East Water St., Milwaukee, archts. Noted Mar. 27.

Ia., Hamberg—School—May 12, by Bd. Educ., 2 story and basement, rein.-con., brick, tile and stone. $150,000. Dougher, Rich & Woodburn, 320 Veterans Natl. Bank Bldg., Des Moines, archts. Noted Mar. 31.

Ia., Sioux City—Hospital—May 20, by Methodist Episcopal Hospital Assn., 14th and Jones Sts., G. T. Notson, supt., 4 story and basement, 42 x 132 ft. and 45 x 75 ft., rein.-con., brick and tile, 29th and Douglas Sts. $250,000. Beuttler & Arnold, 406 Grain Exch. Bldg., archts.

Minn., Duluth—Hotel—Apr. 30, by M. Tullgren & Sons, archts., 425 East Water St., Milwaukee, Wis., 13 story and basement, rein.-con. and brick, plain foundation, here, for Hotel Duluth Co., c/o W. Schroeder, 86 Michigan St., Milwaukee, Wis. $1,250,000 complete. Noted Feb. 28.

Minn., Northfield — Science — Apr. 28 (change of date), by P. O. Holland, business mgr. St. Olafs College, 3 story and basement, 84 x 164 ft., rein.-con., brick and tile. $250,000. Coolidge & Hogdon, 134 South La Salle St., Chicago, archts. Noted Apr. 17.

Minn., St. Paul — School — Apr. 29, by Dept. Educ., City Hall, 3 story and basement, rein.-con., brick and tile, Albert St. and Pascal Ave. $300,000. F. X. Tewes, city archt. Noted Apr. 10.

Kan., Chanute—Memorial and City Hall —May 2, by C. O. Woods, clk., 3 story, rein.-con., brick and stone, plain foundation. $200,000. Lorentz, Schmidt & Co., 516 4th Natl. Bank Bldg., Wichita, archts. Noted Apr. 3.

Calif., Los Angeles—High School—May 7, by Bd. Educ., 1, 2 and 3 story with basement, brick, known as Foshay Junior High School. $300,000. F. J. Soper, Kerckhoff Bldg., archt. Noted Feb. 7.

Calif., Oakland — Club — Athens Athletic Club, Henshaw Bldg., 6 to 8 story, Class A, probably rein.-con., Clay and 12th Sts., to MacDonald & Kahn, 130 Montgomery St., San Francisco, to exceed $650,000. Contractors ready for sub-figures.

BIDS RECEIVED

N. Y., Brooklyn—Station House, Prison and Garage—Police Dept., 240 Centre St., New York, general contract new 75th Precinct Police Station house, prison and garage, New York Ave. and Empire Blvd., here, from W. W. Constr. Co., 15 East 40th St., New York, $219,895.

Mich., Detroit—School—Bd. Educ., 1354 Bway. Ave., 2 story and basement, 150 x 184 ft. rein.-con., brick and steel, plain foundation, Beaumont Ave., from Rosewarne, McNab & Worswick, 333 State St., $307,903.

Wis., North Milwaukee — High School — School Bd., E. F. Neumann, clk., general contract 2 story and basement, brick and tile, plain foundation, Custer Ave., from Foster Constr. Co., 114 Grand Ave., Milwaukee, $111,000; D. B. Danielson, 874 Layton Blvd., Milwaukee, $109,000. Noted Apr. 10.

CONTRACTS AWARDED

N. Y., Buffalo—Bank and Office—A. C. Bossom, archt. and engr., 680 5th Ave., New York City, 24 story, 60 x 350 ft., brick, steel and stone, Main and Court Sts., here, to John Gill & Sons, Citizens Bldg., Cleveland, O., for Liberty Bank. Archts. est. $2,000,000. Noted Mar. 27.

N. Y., Elmira — Hall — Keuka College, constructing John Rogers Hegeman Hall, to F. H. Johnston, 306 West Church St., $200,000.

New York—Schools—Bd. Educ., 500 Park Ave., P. S. 126, Van Alst Ave., in Astoria, to O'Day Constr. Co., 1639 Bway., New York City, $1,001,464; P. S. 82, West 176th St., in New York, to M. F. Kelly Co., Inc., $777,000; P. S. 83, Rhinelander Ave., in New York, to Watt & Sinclair, Inc., 348 West 27th St., New York, $745,494; P. S. 217, Newkirk Ave., in Brooklyn, to G. F. Driscoll Co., 115 Schermerhorn St., Brooklyn, $743,900; P. S. 220, 9th Ave., in Brooklyn, to Waters & Coxwell, $973,000; P. S. 216, Ave. X, in Brooklyn, to Dooley Stapleton Corp., $772,700. Noted Apr. 17.

N. Y., New York—School—Church of St. Rose of Lima, c/o R. J. Reiley, archt. and engr., 50 East 41st St., 4 story, brick, steel and stone, plain foundation, 164th St. between Amsterdam and St. Nicholas Aves., to J. Kennedy & Co., 1133 Bway. Archts. est. $250,000. Noted Nov. 29.

N. Y., New York — Warehouse and Garage—Charles & Co., 48 East 43rd St., 100 x 105 x 175 ft., rein.-con. and brick, plain foundation, 1st Ave. and 44th St., to Ruggles Robinson Co., 311 Madison Ave. Archts. est. $750,000. Noted Feb. 21.

N. J., Glen Ridge—School—Bd. Educ., brick, steel and stone, plain foundation, High St., to Mark C. Tredennick, 25 West 45th St., New York. Archts. est. $190,000. Noted Dec. 27.

Pa., Bradford—High School—School Bd., 2 story and basement, 211 x 232 ft. brick, tile and steel, to Havins Constr. Co., Oleans, N. Y. Archts. est. $200,000. Noted Feb. 21.

Pa., Forty Fort—High School Bd., 2 story and basement, 125 x 234 ft brick and steel, general contract to E. J. Corcoran, Planis, $217,352; heating to J. B. and F. C. Schreiber, Wilkes-Barre, $36,974. Noted Apr. 10.

Pa., Phila.—Church and School—St. Hubert Parish, Cottman St. and Towesdale Ave., 2 story and basement, 67 x 120 ft. stone, plain foundation, to H. J. Sadler, 1117 Bway., Quakertown. Noted Mar. 6.

W. Va., Huntington—Church and Sunday School—Second Presbyterian Church, 2 story and basement, 9th and Jefferson Aves., to Hatfield Constr. Co., 418½-10th St. Archts. est. $150,000. Noted Feb. 21.

Ky., Louisville—Garage and Sales Room — Reo-Spalding-Kelley Co., 210 East Bway., 2 story and basement, 57 x 200 ft., to General Constr. Co., 229 5th St. Archts. est. $150,000.

Ky., Louisville—Theatre and Apartment —Mammoth Realty Co., 608 West Walnut St., 6 story, 70 x 150 ft., Walnut St., to Platoff & Bush, 122 West Liberty St., $225,000. Noted Apr. 17.

O., Cleveland—Office and Warehouse—Industrial Realty Co., c/o C. E. Tousley, archt., 5005 Euclid Ave., 1 story, 80 x 360 ft., rein.-con. and brick, Lorain Ave., to W. Moore Co., 1278 West 4th St. Archts. est. $250,000. Noted Apr. 3.

O., Cleveland Heights (Warrensville, P. O.)—School—St. Anns Roman Catholic Church, 3 story and basement, 65 x 192 ft., brick and rein.-con., Stillman Rd., to W. J. Peirik, 7016 Euclid Ave. Archts. est. $250,000. Noted Apr. 17.

O., Dayton — Hospital — Miami Valley Hospital, Apple St., 3 story and basement, rein.-con. and brick addition, plain foundation, to M. Penker & Sons, 123 Valencia Mt. Aub., Cincinnati, $500,000. Noted Mar. 13.

O., Oxford — Recitation — H. Irwin, clk. Bd. Trustees Miami University, 17 East 3rd St., Dayton, 3 story and basement, L shaped, rein.-con. and brick, on campus, here, to Woods Constr. & Supply Co., 427 Amer. Bank Bldg., Lima, $112,500.

O., Steubenville — Theatre — Tri State Amusement Co., 3 story, 80 x 100 ft., rein.-con. and brick, plain foundation, to G. White Constr. Co., Canton, $500,000. Noted Mar. 27.

Ind., Mishawaka — Bank — First Natl. Bank, 2 story and basement, rein.-con., brick and stone, general contract to Fleisher Constr. Co., 1000 Builders Exch., Minneapolis, $250,000.

Wis., Bloomington—School—Bd. Educ., G. Ballantine, clk., 2 story, 70 x 90 ft., brick, rein.-con. and steel, plain foundation, to A. R. Coffeen Co., Dubuque, Ia. $150,000. Noted Mar. 27.

Wis., Marinette—Store—Lauerman Bros., Dunlap Sq., 3 story and basement, 60 x 120 ft., brick and concrete, plain foundation, to Hutter Constr. Co., 128 Western Ave., Fond du Lac. Archts. est. $150,000. Noted Oct. 4.

Wis., Oshkosh—Temple—Masonic Organizations, c/o F. A. Fuller, 50 West Polk St., 4 story and basement, 90 x 100 ft., brick, stone and concrete, plain foundation, to C. R. Meyer & Sons, 50 State St. Archts. est. $250,000. Noted Apr. 10.

Tex., Dallas — Apartment — R. Grady, Milam Hotel, will build 3 story and basement, 49 x 114 ft., brick and stone, Maple St., by day labor. $150,000. Private plans.

Tex., Houston—Office—J. M. West, 2nd Natl. Bank Bldg., 6 story and basement, 48 x 112 ft., brick and concrete, Main St., to Southwestern Constr. Co., West Bldg., $150,000. Noted Mar. 6.

Buildings **(Continued)**

Tex., Houston — School — Sisters of Charity of Incarnate Word, 8 story, 70 x 167 ft. chapel, 3 story and basement, 98 x 260 ft. main building and 1 and 2 story, 56 x 88 ft. power house, brick, stone and concrete, Telephone Rd., to J. Antill, 210½ Main St., **$481,300.** Noted Jan. 31.

Wash., Seattle—Apartment—Bergman & Bergman, Melhorn Bldg., 3 story, brick and stone, Bellevue and Roy Sts., to H. Pederson, Alaska Bldg. Archts. est. $200,000.

Colo., Denver — Church — St. Dominic Church, West 29th St. and Federal Blvd., general contract 76 x 180 ft., to A. Danielson & Son, McMann Bldg., $128,380; Boise stone, to Boise Stone Co., Boise, Mont., $75,000.

Calif., Los Angeles — Hotel — I. Levin, 3115 5th Ave., will build 4 story and basement, brick, Westlake Ave., by day labor. $150,000.

Calif., Los Angeles—Hotel and Store—United Realty Co., c/o Walker & Eisen, archts., Great Republic Bldg., 4 story and basement, brick, Hollywood Blvd. and Western Ave., to C. Thoren, 867 Hawthorne St., $152,000.

Calif., San Francisco—Hotel—Clift Hotel Co., Geary and Taylor Sts., 15 story and basement, Class A, addition, to contain 200 rooms, to P. J. Walker Co., Monadnock Bldg., $1,500,000.

B. C., Vancouver—University—University of British Columbia, 10th and Willow Sts., 2 story, frame and stucco buildings on concrete, on campus, to E. J. Ryan Contg. Co., Ltd., 445 Granville St., $700,000. Noted Mar. 27.

Federal Government Work

PROPOSED WORK

N. Y., Great Sodus—U. S. Engineers Office, Buffalo, plans concrete superstructure on breakwater in Great Sodus Harbor, (will replace 1,000 ft. wooden superstructure).

Ala., Florence—Bridge—U. S. Engineers Office, Florence, opens bids about May 15, steel bascule bridge, 100 ft. long, over lock, at Wilson Dam.

Ky., Louisville—Steel Dredges—U. S. Engineer, P. O. Box 62, Louisville, plans to purchase 2 steel dipper dredges 7 x 36 x 120 ft.

Ky., Pikesville—Hospital—U. S. Veterans Bureau, Room 791, Arlington Bldg., Wash., D. C., rejected bids constructing complete U. S. Veterans Hospital here. Noted Mar. 20.

Ky., Owensboro—Clam Shell Buckets—U. S. Engineer, P. O. Box 72, Louisville, takes bids about Apr. 22, furnishing six ½ cu.yd. and two 2 cu.yd. heavy clam shell buckets, f.o.b. Owensboro.

Ky., Uniontown—Yellow Pine—U. S. Engineer plans to purchase 125,000 ft. yellow pine for Dam 49, here, 1,750 pieces 2 x 12 in., 20 and 24 ft. lengths, 500 pieces 6 x 8 in. 24 ft. lengths, and 10 x 12 in. 20 ft. lengths.

BIDS DESIRED

N. Y., Binghamton—Heating Plant—May 12, by Treas. Dept. Supervision Architect's Office, alterations to heating plant in U. S. Post Office, Court House, etc.; adv. E. N.-R. Apr. 24.

N. Y., Brooklyn—Pavement, etc.—Spec. 4953—Apr. 30, by Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete pavements and walls.

N. Y., West Point—Stadium—May 12, by E. T. Timberlake, quartermaster U. S. Military Academy, rein.-con. stadium to seat 16,000. Osborn Eng. Co., 7016 Euclid Ave., Cleveland, O., engrs. Noted Feb. 14.

N. J., Woodbury—Post Office—May 14, by Treas. Dept. at office Supervising Architect, Wash., D. C., 1 story, 61 x 69 ft. brick and tile post office; adv. E. N.-R. Apr. 24.

Pa., Aspinwall—Hospital—May 20, by U. S. Veterans Bureau, Room 791, Arlington Bldg., Wash., D. C., constructing infirmary, ambulant quarters, recreation building, nurses quarters, attendants quarters, officers quarters, garage, storehouse, boiler house, steel water tower and tank, septic tanks and house, also roads, drainage gutters, and walks at U. S. Veterans Hospital, here; adv. E. N.-R. Apr. 24.

S. C., Charleston—Electric Crane—Spec. 4962—May 7, by Bureau Yards & Docks Navy Dept., Wash., D. C., electric traveling bridge crane, here. Noted Apr. 10.

Fla., St. Petersburg—Jetty—U. S. Engineer Office, Jacksonville, takes bids about May 5, jetty here. Noted Apr. 10.

O., Sandusky—Dredging—May 1, by U. S. Engineers Office, Buffalo, N. Y., dredging in Sandusky Harbor.

Ill., Chicago—Dredging—May 22, by U. S. Engineer Office, 537 South Dearborn St.; dredging in North Branch Chicago River; adv. E. N.-R. Apr. 24.

Kan., Kansas City—Revetment—May 15, by U. S. Engineer Office, Kansas City, Mo., 1,500 ft. revetment between Goose Island and Jersey Creek, Missouri River, near here.

Mo., Liberty — Post Office — May 15, by Treas. Dept. at office Supervising Architect, Wash., D. C., 1 story, 62 x 64 ft. brick and tile post office; adv. E. N.-R. Apr. 24.

Calif., San Diego—Buildings, etc.—Spec. 4933 May 14, by Bureau Yards & Docks, Navy Dept., Wash., D. C., constructing barracks, storehouse, 7 quarters, concrete roads and walks, railroad siding, sewer, water, steam, gas, electric power and light, and telephone connections at Naval Operating Base, here; adv. E. N.-R. Apr. 24.

BIDS RECEIVED

Ky., Uniontown—Yellow Pine—U. S. Engineer, P. O. Box 72, Louisville, 120,000 ft. No. 2 yellow pine common for Dam 49, here, from Nicola, Stone & Meyers, Hattiesburg, Miss., $32.42 per M. Noted

Mich., Hastings — Post Office — Treas. Dept. Office Supervising Architect, Wash., D. C., post office here from A. M. Lundberg, Times Bldg., St. Louis, Mo., $58,589. Noted Mar. 20.

Mont., Poplar—Sewers—Dept. Interior, Office of Indian Affairs, Wash., D. C., sewerage system at Fort Peck School, here, from W. D. Lovell, 1415 8th St. S. E., Minneapolis, Minn., $4,545. Noted Mar. 27.

CONTRACTS AWARDED

N. Y., New York—Dredging—U. S. Engineer, Army Bldg., Whitehall St., dredging and rock removal in Hackensack River, N. J., 224,000 cu.yd. dredging to Arundel Corp., Pier 2, Pratt St., Baltimore, Md., $0.448, 3,500 cu.yd. rock removal to E. Breymann, 17 Battery Pl., $4. Noted Mar. 13.

Ky., Louisville—Cement—U. S. Engineer, P. O. Box 72, (1) 15,000 bbl. cement for Dam 44, Ohio River, f.o.b. Kosmosdale, (2) 25,000 bbl. cement for Dam 45, Ohio River, f.o.b. Addison, to Kosmos Portland Cement Co., Kosmosdale, (1) $2.55 per bbl., (2) $2.84.

Ky., Louisville—Pumps—U. S. Engineer, P. O. Box 72, Louisville, 2 horizontal duplex piston-pattern oil pumps, to Worthington Pump & Mchy. Corp., 1504 First Natl. Bank Bldg., Cincinnati, O., $2,186. Noted Mar. 20.

O., Cincinnati—Power Houses—U. S. Engineer, power houses at Dams 34, 35 and 38, Ohio River to W. McDonald Constr. Co., St. Louis, Mo., $36,150, power house on Dam 36 to G. Griffiths Constr. Co., Central Natl. Bldg., St. Louis, Mo., $17,333. Noted Mar. 20.

Ind., Leavenworth—Turbine—U. S. Engineer, P. O. Box 72, Louisville, 33 in. water turbine with gearing for Dam 44, Ohio River to J. Leffel & Co., 426 East St., Springfield, O., $1,298. Noted Apr. 3.

Mo., Glasgow—Current Retards—U. S. Engineer, Office, Kansas City, furnishing and placing 750 ft. current retards at Cambridge Bend, in Missouri River, here to Woods Bros. Constr. Co., Lincoln, Neb., $47,250. Noted Apr. 3.

Calif., Livermore—Ice and Refrigerating Plant—U. S. Veterans Bureau, Room 791, Arlington Bldg., Wash., D. C., ice making and refrigerating plant at U. S. Veterans Hospital, here, to Vulcan Iron Wks., Francisco and Kearney Sts., San Francisco, Calif., $11.300. Noted Feb. 14.

Unclassified

PROPOSED WORK

Transmission Line—New York—Adirondack Power & Light Co., 511 State St., Schenectady, had plans prepared 45 mi. transmission line from Beardsley Falls to Colliers, also transformer station at Colliers, $1,000,000.

Transmission Line—New York—Kingston Light & Power Co., Kingston, plans transmission line through Olive and Hurley Twps. to serve hamlets of Ashokan and Shokan. $50,000.

Marine Tower, etc.—Buffalo, N. Y.—Washburn-Crosby Milling Co., Chamber of Commerce Bldg., plans steel marine tower and gallery, foot of Michigan Ave. **$60,000.**

Ornamental Street Lighting System — Lackawanna, N. Y.—Common Council plans ornamental lighting system along Ridge Rd. and South Park Ave. $30,000-$35,000.

Transmission Line—Walworth, N. Y.—Walworth Light & Power Co., plans transmission line to serve Walworth and Macedon Twps. with electricity. $40,000.

Park—Trenton, N. J.—City plans enlarging Cadwalader Park, $40,000, also constructing comfort station in park, $14,000. J. E. English, city engr.

Grandstand—Clearfield, Pa.—Boro. Council had plans prepared by Osborne Eng. Co., 7016 Euclid Ave., Cleveland, O., first wing of grandstand, (3,000 seating capacity), concrete and steel, at Clearfield Park.

Dry Dock—Slidell, La.—Canulette Shipbuilding Co., plans dry dock. $75,000.

Light and Power Lines, etc.—Nashville, Tenn.—Nashville Railway & Light Co., Watkins Bldg., plans to expend $500,000 for new light and power lines, substation, relaying 12.58 mi. track, power plant equipment, etc. B. C. Edgar, vice pres.

River Terminal — Uniontown, Ky. — Illinois Central R.R., 135 East 11th Pl., Chicago, plans rebuilding terminal on Ohio River, here, incl. track, etc. F. L. Thompson, ch. engr.

Subways, etc.—Cleveland, O.—Pennsylvania Co., 5716 Euclid Ave., plans subways and bridges, steel and rein.-con. $650,000. B. A. Moore, 5716 Euclid Ave., engr.

Transmission Line — Indiana — Indiana Electric Corp., 505 Guaranty Bldg., Indianapolis, plans high tension line across Wabash River from new power plant 9 mi. southwest of Terre Haute, Work incl. structural steel towers, 780 ft. span across river. $25,000. F. G. Dana, c/o owner, engr.

Stadium—Madison, Wis.—University of Wisconsin, J. D. Phillips, business mgr., plans rein.-con. athletic stadium, at Camp Randall, 3 concrete additions, 25 x 62 ft., 50 x 62 ft. and 22 x 450 ft. $50,000.

Park Improvements—Omaha, Neb.—City, c/o J. B. Hummel, having preliminary plans prepared improving Levi Carter Parks, incl. lake dredging, and general improvements. $50,000. H. Beal, city engr.

Stadium—Austin, Tex.—Universal Memorial Stadium Assn., M. Fichtenbaum, secy., having plans prepared and soon takes bids rein.-con. athletic stadium, first unit to consist of 2 sections, each 118 x 435 ft. with rein.-con. tower, 30 x 60 x 125 ft. high with 41 ft. extension, end walls of hollow tile and stucco, curtain walls of tower, hollow tile and stucco. $500,000. H. M. Greene Co., 620 North Texas Bldg., Dallas, archts. and engrs.

Electrolier System—Bakersfield, Calif.—Having plans prepared electrolier system on portion Sonora and H Sts. $25,000 or more. E. D. Clarke, city engr.

Subway — Fresno, Calif. — City having surveys made subway across Southern Pacific tracks, connecting east and west sections Monterey St. (property owners will finance portion of cost in co-operation with city and railroad). $100,000. W. Stranahan, city engr. Noted Feb. 7.

Parapet and Wall—San Francisco, Calif.—City and San Francisco Co. having plans prepared Sutro Heights parapet and wall. $25,000. M. M. O'Shaughnessy, city engr.

Retaining Wall — Venice, Calif. — See "Streets and Roads."

Harbor and River Work — Canada — Dominion of Canada, Dept. Pub. Wks., Parliament Bldg., Ottawa, Ont., plans harbor and river work in following provinces: Ontario $626,750, Nova Scotia $589,175, New Brunswick $123,850, Prince Edward Island $84,100, Quebec $727,175, Manitoba $54,670, Saskatchewan, $25,395, and British Columbia $331,250. Work includes wood and concrete wharves, dredging, repairs, etc. K. M. Cameron, ch. engr.

Harbor and River Work—Ontario—Dept. Pub. Wks., Parliament Bldg., Ottawa, plans harbor and river work throughout province as follows: Bell River $30,000, Blind River $10,000, Burlington Channel $50,000, Chatham $4,000, Cobourg $50,000, Cockburn Island $4,600, Collingwood $50,000, Dyers Bay $1,300, Goderich $50,000, Haileybury $12,000, Huntsville $3,400, Jacksons Point $4,600, Jeannettes Creek $1,000, Kincardine $20,000, Kingsville $5,000, Kemptville $900, Leamington $1,000, Lafaivre $3,500, Lions Head $1,900, New Liskeard $1,150, Oshawa $50,000, Pelee Island $37,000, Pembroke $50,000, Port Bruce $1,500, Port Burwell $60,000, Port

Unclassified (Continued)

Colborne $11,000, Port Stanley $20,000, Rondeau $2,500, Saulte Ste. Marie $2,500, Thessalon $25,000, Tiffin $3,000, Washago $2,000,' Wendover $5,000, Toronto $400,000, Windsor $1,000, work will include wood pile, timber wharf work, concrete, mass and rein.-con., dredging, etc.

Rink—Toronto, Ont.—Ravina Rink, 50 Rowland Ave., plans 1 story, 80 x 175 ft., brick, rein.-con. and steel, plain foundation. $160,000. Engineer and architect not selected.

BIDS DESIRED

Bank Protection—New York—May 20, by R. K. Fuller, comr. Canals & Waterways, 55 Lancaster St., Albany, bank protection at various locations along Erie Canal from 1 mi. east of Schenectady to Canajoharie, Contr. 221, also at various locations along Erie Canal between Canajoharie and Lock 19, Contr. 222; adv. E. N.-R. Apr. 24.

Heating and Ventilating Apparatus — New York, N. Y.—May 8, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, heating and ventilating apparatus, etc., in master's house, dormitory buildings, infirmary, power hopse, etc., for Parental School, on westerly side of road between Flushing and Jamaica, about 1,700 ft. south of North Hempstead Turnpike, Flushing.

Foundations—Brooklyn, N. Y.—May 2, by Transit Comn., 49 Lafayette St., New York, foundations for electrical repair shop at Coney Island Yard, here. G. McAneny, chn.

Heating and Ventilating Apparatus — Brooklyn, N. Y.—May 8, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., heating and ventilating apparatus in P. S. 202, Hegeman Ave. from Atkins Ave. to Berriman St., also in P. S. 206, Ave. V from Elmore to Delamere Places, for Bd. Educ., 500 Park Ave., New York.

Heating and Ventilating Apparatus — Jamaica, N. Y.—May 8, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, heating and ventilating apparatus in P. S. 116, Wren Pl., from Polhemas Ave. to Rex Rd. and extending to Fern Pl., South Jamaica, for Bd. Educ., 500 Park Ave.

Heating and Ventilating Apparatus — New York, N. Y.—May 8, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, heating and ventilating apparatus in P. S. 71, Roberts Ave. from Jarvis to Hobart Aves., Bronx Boro, here, for Bd. Educ., 500 Park Ave.

Signal Tower, etc.—New York, N. Y.—May 2, by Transit Comn., 49 Lafayette St., signal tower in Lenox Ave. and 148th St. Yard, Agreement "DA"; tracks for portion of Lenox Ave.-148th St. Yard; structural steel for Westchester Ave. Yard of 7th Ave.-Lexington Ave. Rapid Transit R.R., Routes 19 and 22. G. McAneny, chn.

Heating and Ventilating Apparatus — Richmond Hill (Jamaica P. O.), N. Y.—May 8, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, heating and ventilating apparatus in P. S. 121, 109th (Suwanee) Ave. between 126th and 127th Sts., here, for Bd. Educ., 500 Park Ave., New York.

Trolley Poles—San Francisco, Calif.—Apr. 30, by Bd. Pub. Wks., trolley poles, rein.-con., along Ocean View extension of municipal railway. $25,000. M. M. O'Shaughnessy, city engr.

Tunnel—British Columbia—May 5, by British Columbia Electric Ry. Co., 425 Carroll St., Vancouver, boring 3,561 ft. tunnel, 14 x 14 ft. between Alouette and Stave Lakes. $360,000. J. I. Newell, c/o owner, engr. Noted Apr. 10.

BIDS RECEIVED

Subway Entrance—New York, N. Y.—Transit Comn., 49 Lafayette St., Apr. 16, additional entrance to Canal St. Sta. (Loop Line) of Bway.-4th Ave. Rapid Transit R.R., from Gustin Morris Contg. Co., Anabel Pl. and Creek St., Long Island City, $39,000. Noted Apr. 3.

CONTRACTS AWARDED

Heating and Ventilating Apparatus—Brooklyn, N. Y.—Bd. Educ., 500 Park Ave., heating and ventilating apparatus in James Madison High School, Bedford Ave. from Ave. P. to Quentin Rd., for Bd. Educ., 500 Park Ave., New York City, to Austin Eng. Co., 124 West 42nd St., New York City, $246,475. Noted Apr. 3.

Heating and Ventilating Apparatus—New York, N. Y.—Bd. Educ., 500 Park Ave., heating and ventilating apparatus in James Monroe High School, Boynton Ave. from East 172nd to East 173rd Sts., to E. Rutzler & Co., 404 East 49th St., $242,673; P. S. 99, 100th St., between Exterior St. and 1st Ave., extending through to East 99th St., to Daniel J. Rice, 405 Lexington Ave., $139,670. Noted Apr. 3.

Bulkhead — Miami, Fla. — L. T. Cooper, 1,600 ft. bulkhead in Biscayne Bay, here, to Comer-Ebarsy Foundation Co., Miami, to exceed $25,000.

Oil Tank, Engine, Distribution Lines, etc. —Fredonia, Kan.—See "Industrial Works."

Culvert—Colusa, Calif.—Recl. Dist. 108 rejected bids for culvert 385 ft. long, 115 ft. of corrugated iron pipe and 207 ft. rein.-con. box 6 x 6½ ft.

High Voltage Line—British Columbia—British Columbia Electric Ry., 425 Carroll St., Vancouver, renewing 20 mi. high voltage line from here to Lake Buntzen, also 2 mi. new line from Lake Buntzen to Deer Lake, to Humble & Rumole, 647 Columbia St., New Westminster, $50,000.

Material and Equipment

PROPOSED WORK

Road Oil—Oshkosh, Wis.—Bd. Pub. Wks., B. C. Meyer, comptroller, soon takes bids 100,000 gal. road oil having 50 per cent ashphaltic content.

Street Signs—San Francisco, Calif.—City and San Francisco Co. plan to purchase street signs. $15,000. M. M. O'Shaughnessy, city engr.

Fire Hydrants — Stockton, Calif. — City plans to purchase fire hydrants. $7,250. C. Ashburner, city mgr.

BIDS DESIRED

Motor Trucks—Long Island City, N. Y. —Apr. 29, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., motor trucks and equipment.

Bituminous Materials, etc. — Harlingen, N. J.—May 5, by Montgomery Twp. Com., Twp. Hall, 4,576 gal. bituminous materials, 5,976 sq.yd. scarifying and resurfacing, 3,177 lin.ft. patching, 18,306 lin.ft. regrading shoulders. H. C. Van Emburgh, 149 North Ave., Plainfield, engr.

Paving Blocks—Wheeling, W. Va.—See "Streets and Roads." B. D.

Pipe—South Carolina—Apr. 29, at office State Highway Engineer, Columbia, rein.-con. culvert pipe, (alternate double strength v.c. pipe) in divisions as follows: Central Div. incls. Aiken, Chester, Chesterfield, Edgefield, Fairfield, Kershaw, Lancaster, Lexington, Richland, Saluda and York Counties, 3,447 lin.ft. 15 in., 3,317 lin.ft. 18 in., 1,941 lin.ft. 24 in., 932 lin.ft. 38 in., 984 lin.ft. 36 in., Western Div., Abbeville, Anderson, Cherokee, Greenville, Greenwood, Laurens, McCormick, Newberry, Oconee, Pickens, Spartanburg and Union Counties, 1,038 lin.ft. 15 in., 1,158 lin.ft. 18 in., 820 lin.ft. 24 in., 345 lin.ft. 30 in., 345 ft. 36 in., Southeastern Div., Allendale, Bamberg, Barnwell, Beaufort, Berkeley, Calhoun, Charleston, Colleton, Dorchester, Hampton, Jasper and Orangeburg Counties, 3,745 lin.ft. 15- to 36-in. pipe, Northeastern Div., Claredon, Darlington, Dillon, Florence, Georgetown, Horry, Lee, Marion, Marlboro, Sumter and Williamsburg Counties, 691 lin.ft. 15- to 36-in. pipe.

Spindles—Lansing, Mich.—Apr. 28, by F. F. Rogers, comr. State Hy. Dept., manufacture, freighting and delivering in small lots at various points, number of spindles, 2,000 to 4,000.

Patrol Graders—Appleton, Wis.—A. C. Brusewitz, highway comr. Outagamie Co. taking bids several patrol graders.

Dump Trucks, etc.—Cloquet, Minn.—Apr. 28, by city, 1 ton dump truck, alternate bids on (a) complete with open type seat, one yard dump body and gate equipment with chains for spreading gravel (b) one ton truck chassis with open seat only. J. A. Parks, clk.

Truck—Minneapolis, Minn.—May 2, by F. S. Gram, city purch. agt., one 3½-ton truck. N. W. Elsberg, city engr.

Street Sweeper — Minneapolis, Minn. — Apr. 29, by F. S. Gram, city purch. agt., 1 motor-driven pickup street sweeper. N. W. Elsberg, city engr.

Road Oil—St. Paul, Minn.—May 5, by G. J. Ries, aud. Ramsey Co., 300,000 gal. road oil. P. N. Coates, 900 Guardian Life Bldg., co. surv.

Bridge Timbers—Houston, Tex.—May 5, by Comrs. Harris Co., miscellaneous bridge timbers creosoted. $15,000. Howe & Wise, co. engrs.

Shell—Houston, Tex.—May 1, by H. L. Washburn, aud. Harris Co. Navigation Dist., Court House, 12,000 cu.yd. shell for railroad ballast. E. A. Tucker, Court House, engr.

BIDS RECEIVED

Sand Grit, etc.—Long Island City, N. Y. —M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., 5,000 cu.yd. sand grit, broken stone, etc., from Tuohey & Upton, Inc., 129 Bway., Flushing, L. I., 12,650. Noted Mar. 27.

Trucks—St. George, N. Y.—J. A. Lynch, pres. Richmond Boro, Boro Hall, one 1½ ton and one 2 ton automobile trucks with dump bodies, from Kruger Motor Car Co., $2,585 and $2,685 respectively. Noted Apr. 10.

CONTRACTS AWARDED

Tie Plates—New York, N. Y.—Transit Comn., 49 Lafayette St., tie plates (order 6) for use in construction of Rapid Transit Railroad, to Dilworth Porter & Co., Inc. $35,489. Noted Apr. 17.

Asphaltic Cement, etc.—St. George, N. Y. —J. A. Lynch pres. Richmond Boro, Boro Hall, to Standard Oil Co., 26 Bway., New York, 225 tons asphaltic cement $4,478; to J. Johnson Sons, 455 Bway., West New Brighton, 2,900 cu.yd. asphalt sand $2,250, 1,600 cu.yd. broken stone $5,719, 2,700 cu.yd. broken stone $12,789, 1,425 cu.yd. broken stone $5,130; to Barrett Co., 40 Rector St., New York, 100,000 gal. bituminous road surfacing material $10,300, 93,500 gal. tar macadam $13,090; to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, 93,500 gal. asphaltic macadam binder $13,090, 1,050 cu.yd. pea gravel $2,888, 1,450 cu.yd. pea gravel $4,713; to Liberty Mason Supply, 3,400 cu.yd. broken stone $12,852, 1,500 cu.yd. pea gravel $6,900. Noted Apr. 10.

Road Oil—Milwaukee, Wis.—For 400,000 gal. medium light road surfacing oil, to Camden Petroleum Co., 232 South Clark St., Chicago, $0.0694 per gal.; 50,000 gal. light bituminous binder, 200,000 gal. medium tar, 150,000 gal. heavy tar, 100,000 gal. heavy tar to Amer. Tar Products Co., 208 South La Salle St., Chicago, $0.102, $0.104, $0.104 and $0.10 per gal. respectively. Noted Apr. 17.

Road Oil—Racine, Wis.—For 10,000 to 130,000 gal. road oil having 55% to 60% asphaltic content, to Standard Oil Co., 68 Wisconsin St., Milwaukee, $0.0625 per gal. Noted Mar. 27.

Tractor—Benson, Minn.—Swift Co., gas tractor, crawler type, to Holt Mfg. Co., 417 Washington Ave. S., Minneapolis, $6,250 (f.o.b. factory). Noted Apr. 3.

Culverts — Buffalo, Minn. — Wright Co., furnishing f.o.b. cars at all shipping points in county, various sizes corrugated metal and sectional concrete culverts for 1924, to Berger Mfg. Co., 1701 North East Bway., Minneapolis. Noted Apr. 3.

Culverts—Timber Lake, S. D.—C. Hauan, aud. Dewey Co., furnishing 2 carloads metal culverts, Grade A, to Sioux Falls Metal Culvert Co., 500 East 6th St., Sioux Falls, 12 in. $1.04, 15 in. $1.27, 18 in. $1.52, 24 in. $2.35, 30 in. $2.91, Grade B to Timber Lake Lumber Co., Timber Lake, 12 in. $0.84, 15 in. $1.03, 18 in. $1.22, 24 in. $1.91, 30 in. $2.39, also 1 carload bridge lumber and piling $31.90 per M. for bridge lumber. Noted Apr. 3.

Grader — Devils Lake, N. D. — J. A. Kramer, aud. Ramsay Co., one large elevating grader with engine hitch and rigid disk plow and carrier, 40 in. wide, 18 ft. long, to Austin Western Road Mchy. Co., 375 Cedar St., St. Paul, Minn., $2,135. Noted Mar. 27.

Road Machines—Grand Forks, N. D.—Grand Forks Co., 6 road maintenance machines: 3 to Russell Grader Mfg. Co., 2005 University Ave., S. E., Minneapolis, Minn., $194 each; 1 to Galion Iron Wks. & Mfg. Co., Galion, O., $188; 1 to Austin Western Road Mchy. Co., 375 Cedar St., St. Paul, Minn., $199; and 1 to Northwestern Sheet Iron Wks., Wahpeton, $215. Noted Mar. 20.

Refined Tar—Clayton, Mo.—St. Louis Co., 100,000 gal. refined tar, more or less for use on roads during 1924, to Barrett Co., Laclede Gas Bldg., St. Louis, $0.1223 per gal. delivered, total $12,230. Noted Mar. 20.

Pipe—Dallas, Tex.—For 200 tons 6 in. Delavaud pipe and 80 tons 10 in., to U. S. Cast Iron Pipe Co., Magnolia Bldg., $0.949 and $1,818 respectively. Noted Mar. 27.